



PR	28-JAN-1997:	9705-071154.
XX		
PA	(REGC ) UNIV CALIFORNIA.	
XX		
PI	Chen H, Chen P, Nguyen TD, Polansky JR.	
XX		
DR	WPI: 1998-427946/36.	
XX		
PT	Use of TIGR nucleic acid sequences - used for, e.g. developing	
PT	products for diagnosis, prognosis and treatment of glaucoma	
XX		
PS	Claim 37; Fig 3; 105pp: English.	
XX		
CC	This sequence is a trabecular meshwork induced glucocorticoid response	
CC	protein (TIGR) upstream region and exon 1. This DNA sequence can be used	
CC	in a method for diagnosing glaucoma in a patient. The method involves the	
CC	detection of polymorphisms whose presence is predictive of a mutation	
CC	affecting TIGR response in the patient and can be diagnostic of glaucoma	
CC	or steroid sensitivity. Base substitutions and base additions upstream of	
CC	and within TIGR exons can also be used to diagnose glaucoma.	
XX		
Q	Sequence 6169 BP; 1702 A; 1389 C; 1491 G; 1587 T; 0 other.	

Query Match	Best Local Similarity	100.0%	Score 5271	DB 19	Length 6169
Matches 5271	Conservative	0	Mismatches	0	Indels
					Gaps
0Y	1 attctgttcaagttactctcagggcctctcttgaataatgaataacaaatgtgaag	60			
Db	1 attctgttcaagttactctcagggcctctcttgaataatgaataacaaatgtgaag	60			
0Y	61 tccataaactgtataagccctccatccgaatgtatgtctcttggaggaatataaagatca	120			
Db	61 tccataaactgtataagccctccatccgaatgtatgtctcttggaggaatataaagatca	120			
0Y	121 ggaaagaaagggtatccaagtttagccaagtgttccaggctgttctgtccttatattaga	180			
Db	121 ggaaagaaagggtatccaagtttagccaagtgttccaggctgttctgtccttatattaga	180			
0Y	181 cagaatgttgcctctgcagaaagctattcttcctggaaactccaaatcgaatgtcnaatc	240			
Db	181 cagaatgttgcctctgcagaaagctattcttcctggaaactccaaatcgaatgtcnaatc	240			
0Y	241 catcaaacagagagctaaagaaacaggaatgatatgtagcacttgcacaaagaaatgtccag	300			
Db	241 catcaaacagagagctaaagaaacaggaatgatatgtagcacttgcacaaagaaatgtccag	300			
0Y	301 ggaaggaataatgtatgaaataaaacttctcccttgttttaatttcagaaaaaatg	360			
Db	301 ggaaggaataatgtatgaaataaaacttctcccttgttttaatttcagaaaaaatg	360			
0Y	361 atgagagacaaatcatatgaataagaagaacagctccagaaaaaagatttcccaattgg	420			
Db	361 atgagagacaaatcatatgaataagaagaacagctccagaaaaaagatttcccaattgg	420			
0Y	421 taattaagtaatttctccttggaaagagactccatctgtagagcttgaatggaataatggaa	480			
Db	421 taattaagtaatttctccttggaaagagactccatctgtagagcttgaatggaataatggaa	480			
0Y	481 aaagcttcaaaaacatgatctgtatcgatccccaagtgtatattattttaaaaaacgat	540			
Db	481 aaagcttcaaaaacatgatctgtatcgatccccaagtgtatattattttaaaaaacgat	540			
0Y	541 ggcatactcttggagagcagaagctcagaagaagtcattgttagcaaaaggacaataacaac	600			
Db	541 ggcatactcttggagagcagaagctcagaagaagtcattgttagcaaaaggacaataacaac	600			
0Y	601 agcaaaatccaaaatccgcgaatgcagagagaaaaatggagacgtggaaagctttcataac	660			
Db	601 agcaaaatccaaaatccgcgaatgcagagagaaaaatggagacgtggaaagctttcataac	660			
0Y	661 agtatttgagagtgtgcacatgtctgcacacccctccctctataccaggaacacaaaa	720			

Db	661	agctgattgagcagtgtgacactgtgtcgcaacacctcccgcttcataccagggaacaaaa	720
Qy	721	atcgactggtgaagccttgactcttcagaaggaaatattgaaaaacgtgaagcaaaaacaaa	780
Db	721	attgactggtgaagccttgactcttcagaaggaaatattgaaaaacgtgaagcaaaaacaaa	780
Qy	781	gacatggtttaaagagcaaccagaacattgttgagccttcaaaagcagatgcccctcagca	840
Db	781	gacatggtttaaagagcaaccagaacattgttgagccttcaaaagcagatgcccctcagca	840
Qy	841	ggagccctggagcacttgcccttttaggaagagcagtttcttaaggaaacttaagaaactc	900
Db	841	ggagccctggagcacttgcccttttaggaagagcagtttcttaaggaaacttaagaaactc	900
Qy	901	ttgaaagatcagaaatatttaaaccaatttaagatataaacaataatgcagtgcataacag	960
Db	901	ttgaaagatcagaaatatttaaaccaatttaagatataaacaataatgcagtgcataacag	960
Qy	961	tttgagacatggtgcccaattttataaagtgcaggtacaaagataacgtgtccagctcc	1020
Db	961	tttgagacatggtgcccaattttataaagtgcaggtacaaagataacgtgtccagctcc	1020
Qy	1021	ggataaggttcagaaatcatatagaaataacactgtgtcccccctcctaacttttcagaaatc	108
Db	1021	ggataaggttcagaaatcatatagaaataacactgtgtcccccctcctaacttttcagaaatc	108
Qy	1081	tgtcatagcccttcacacaaagagcccgatgtgtctgaacctacaacacacatctacaaccca	114
Db	1081	tgtcatagcccttcacacaaagagcccgatgtgtctgaacctacaacacacatctacaaccca	114
Qy	1141	gtgcctcaaaccaattgttaaaagctcatatccagtgatccagttacaaatgagccaccccc	1200
Db	1141	gtgcctcaaaccaattgttaaaagctcatatccagtgatccagttacaaatgagccaccccc	1200
Qy	1201	tgtgagagcccatcccgctccacagaagaatctcccaacttagaactctctgcatcagatgt	1260
Db	1201	tgtgagagcccatcccgctccacagaagaatctcccaacttagaactctctgcatcagatgt	1260
Qy	1261	tacaagacgaagaactcgtctgaagggtgaagggtctgtgtcttaacactccgttatgtctctac	1320
Db	1261	tacaagacgaagaactcgtctgaagggtgaagggtctgtgtcttaacactccgttatgtctctac	1320
Qy	1321	acctgagctcacatgcaacctctgtccctccaggttcaagcaaatctctctgtctcagctcc	1380
Db	1321	acctgagctcacatgcaacctctgtccctccaggttcaagcaaatctctctgtctcagctcc	1380
Qy	1381	cgcgtaagcttgagaaactcgaagagcgagcccgccgagcaattttgttatgttgtagaagatgg	1440
Db	1381	cgcgtaagcttgagaaactcgaagagcgagcccgccgagcaattttgttatgttgtagaagatgg	1440
Qy	1441	gtttacaacatctagcccggtgtgtcttgaaactccctgcagacctcagatgtagtcccaacctc	1500
Db	1441	gtttacaacatctagcccggtgtgtcttgaaactccctgcagacctcagatgtagtcccaacctc	1500
Qy	1501	agccctccctaaagtgcctggggtttacagcatatgattccacggtccggccgaaggtcaatgtc	1560
Db	1501	agccctccctaaagtgcctggggtttacagcatatgattccacggtccggccgaaggtcaatgtc	1560
Qy	1561	ttaaataagaaataactctgaaatgttttaactaaaccaaaggaagaaacagaacaaagcttga	1620
Db	1561	ttaaataagaaataactctgaaatgttttaactaaaccaaaggaagaaacagaacaaagcttga	1620
Qy	1621	taatttcaggaatctctggggaatggggaatgtgtgcataagatctgccttgctatgccagac	1680
Db	1621	taatttcaggaatctctggggaatggggaatgtgtgcataagatctgccttgctatgccagac	1680
Qy	1681	caatggtcccatcaactttcttcccccacaccccatcttcagagctaaagtattacatttatt	1740
Db	1681	caatggtcccatcaactttcttcccccacaccccatcttcagagctaaagtattacatttatt	1740
Qy	1741	caacatgctttgttgtaaagctccacatcgttactgaataagagtatacataactag	1800

Db 1741 caacatgcttttctgtgtaagccctccacacgcttactgtaataagatatacataaactag 1800  
Qy 1801 tcccatcttgaggccatctctgtgtgtgtatagggaggagccatccccagagactcct 1860  
Db 1801 tcccatcttgaggccatctgtgtgtgtatagggaggagccatccccagagactcct 1860  
Qy 1861 tgaagccccccgagagaggttctctctccagctgaggagccccctgcaagaccgggttcc 1920  
Db 1861 tgaagccccccgagagaggttctctctccagctgaggagccccctgcaagaccgggttcc 1920  
Qy 1921 tgggtgtctcttgagcaaacctgagcccgctgagccactgtctgttcttcaactctctag 1980  
Db 1921 tgggtgtctcttgagcaaacctgagcccgctgagccactgtctgttcttcaactctctag 1980  
Qy 1981 gaccgtgtctcttctatcttctgtgtgactcgttcatcttccagagatcatggaact 2040  
Db 1981 gaccgtgtctcttctatcttctgtgtgactcgttcatcttccagagatcatggaact 2040  
Qy 2041 tatctgagtaataatctatctgcaagacacagagacaaatggtgagcaagcagctcagc 2100  
Db 2041 tatctgagtaataatctatctgcaagacacagagacaaatggtgagcaagcagctcagc 2100  
Qy 2101 cctaacctctgtgagagtgagcagttctctcatggaagacgtgagagaaaaatataagcca 2160  
Db 2101 cctaacctctgtgagagtgagcagttctctcatggaagacgtgagagaaaaatataagcca 2160  
Qy 2161 gcccaacttaaacccagtgctgtaaaagaaataaaccatcttgaagaattgtggcg 2220  
Db 2161 gcccaacttaaacccagtgctgtaaaagaaataaaccatcttgaagaattgtggcg 2220  
Qy 2221 agcatctccttaaacagagccacccctccctagcggccctgtcgtctccatctgtccggag 2280  
Db 2221 agcatctccttaaacagagccacccctccctagcggccctgtcgtctccatctgtccggag 2280  
Qy 2281 cccccaagccgagatctcccaagcctcctccatcaatcacagcgtgagcgtgagcct 2340  
Db 2281 cccccaagccgagatctcccaagcctcctccatcaatcacagcgtgagcgtgagcct 2340  
Qy 2341 gctctgcttcccggtgatactgctctgtgtgcactcagctgagagactctctggctccagagc 2400  
Db 2341 gctctgcttcccggtgatactgctctgtgtgcactcagctgagagactctctggctccagagc 2400  
Qy 2401 ccagaaaggaataatgagaggaagaaactgtaacggagaaatccggagggagacgttctc 2460  
Db 2401 ccagaaaggaataatgagaggaagaaactgtaacggagaaatccggagggagacgttctc 2460  
Qy 2461 ctcagagggagaaagggcctccacgtcccaagagaaatcccaagaggtgaggagcagggag 2520  
Db 2461 ctcagagggagaaagggcctccacgtcccaagagaaatcccaagaggtgaggagcagggag 2520  
Qy 2521 tggggagcgtctgggagcgtgagcgggtgtctgtaaaagcagagaaagtgaaaaaggcagagc 2580  
Db 2521 tggggagcgtctgggagcgtgagcgggtgtctgtaaaagcagagaaagtgaaaaaggcagagc 2580  
Qy 2581 gctgagccagatgctcagctgtgtgttcaaggggagctggagatcttccgttgcctctgagagc 2640  
Db 2581 gctgagccagatgctcagctgtgtgttcaaggggagctggagatcttccgttgcctctgagagc 2640  
Qy 2641 ctttatacttctctctgtcttgagaggaagaagtcataattcaatgaagagatgcaattc 2700  
Db 2641 ctttatacttctctctgtcttgagaggaagaagtcataattcaatgaagagatgcaattc 2700  
Qy 2701 atcaaaagtcagctgttaaaatccagaggtgtgtgcatgggtttctcttccatcagaaagcccttat 2760  
Db 2701 atcaaaagtcagctgttaaaatccagaggtgtgtgcatgggtttctcttccatcagaaagcccttat 2760  
Qy 2761 ttaaatggagataagagaaagcagatcattccctagagccgtttaaattcagaaagaaatggac 2820  
Db 2761 ttaaatggagataagagaaagcagatcattccctagagccgtttaaattcagaaagaaatggac 2820  
Qy 2821 tggagctcttctctctcatgctctctctgggcaactactcagccctgtgtgagacttgctta 2880  
Db 2821 tggagctcttctctctcatgctctctctgggcaactactcagccctgtgtgagacttgctta 2880

Qy 2881 tgcagagcgtctgaaaaaccttgaaatcagagagctcggtttctctctctgtgtccatc 2940  
Db 2881 tgcagagcgtctgaaaaaccttgaaatcagagagctcggtttctctctctgtgtccatc 2940  
Qy 2941 ggttggtctgtgcagacgttggcagaagtgctctctctctccctgggccaatgctctctgct 3000  
Db 2941 ggttggtctgtgcagacgttggcagaagtgctctctctctccctgggccaatgctctctgct 3000  
Qy 3001 ataaagacccttgagcgtctctgttctgtgaaacttcccggtatctctctgtgaggg 3060  
Db 3001 ataaagacccttgagcgtctctgttctgtgaaacttcccggtatctctctgtgaggg 3060  
Qy 3061 ggtatgttgagagggag 3120  
Db 3061 ggtatgttgagagggag 3120  
Qy 3121 ggcagagaaagcagagcagagagctgggtgctccatcagctctcatctgatacgtcagactc 3180  
Db 3121 ggcagagaaagcagagcagagagctgggtgctccatcagctctcatctgatacgtcagactc 3180  
Qy 3181 cagagacggagagccacaaatgctcagagaaagctcaatgaacccaaagccacatcttcc 3240  
Db 3181 cagagacggagagccacaaatgctcagagaaagctcaatgaacccaaagccacatcttcc 3240  
Qy 3241 tccctaagcatagacaaatgcatctgtgccaataccaaagaaatgcaagacttaactggt 3300  
Db 3241 tccctaagcatagacaaatgcatctgtgccaataccaaagaaatgcaagacttaactggt 3300  
Qy 3301 ggtagacttctgtcctgcatctcaaaaaacttgggcagagacagtgtgaataatgccaagatg 3360  
Db 3301 ggtagacttctgtcctgcatctcaaaaaacttgggcagagacagtgtgtgaataatgccaagatg 3360  
Qy 3361 ttaaaactttcaaccttgacacagacacccacagctctcagtgagttgtgtgtgcaacgg 3420  
Db 3361 ttaaaactttcaaccttgacacagacacccacagctctcagtgagttgtgtgtgcaacgg 3420  
Qy 3421 agtgacctgagcagcag 3480  
Db 3421 agtgacctgagcagcag 3480  
Qy 3481 acagatctcatcaagggcagtgaggaaatgacacagggatataagctccagctgactcgtg 3540  
Db 3481 acagatctcatcaagggcagtgaggaaatgacacagggatataagctccagctgactcgtg 3540  
Qy 3541 gttctagagagcagaggtctatctgtgggggagaaataatcagttcagaagaaatccggagag 3600  
Db 3541 gttctagagagcagaggtctatctgtgggggagaaataatcagttcagaagaaatccggagag 3600  
Qy 3601 cctgattcttaatactataatttctcccttaacagctgagtaattctgagcaagctcaag 3660  
Db 3601 cctgattcttaatactataatttctcccttaacagctgagtaattctgagcaagctcaag 3660  
Qy 3661 gtagtaactgagagctgttaagatctactgactctctcttaataagaaacttctctctgt 3720  
Db 3661 gtagtaactgagagctgttaagatctactgactctctcttaataagaaacttctctctgt 3720  
Qy 3721 ggaagttagagcaagagcaatcccggtctcttcaacagagaaataatccctcaagag 3780  
Db 3721 ggaagttagagcaagagcaatcccggtctcttcaacagagaaataatccctcaagag 3780  
Qy 3781 taaagccaaacagatccaagccttaaggtctgtctgactataatgattgtgtttttgaaaaat 3840  
Db 3781 taaagccaaacagatccaagccttaaggtctgtctgactataatgattgtgtttttgaaaaat 3840  
Qy 3841 catttcagagatgttactatctgattcagaaataagagactgataccctctgtgtaagctg 3900  
Db 3841 catttcagagatgttactatctgattcagaaataagagactgataccctctgtgtaagctg 3900  
Qy 3901 taaacaaacacccagctgtgaataatgctcagagttcaggtctaaactcagagaaacaaatcaaaa 3960  
Db 3901 taaacaaacacccagctgtgaataatgctcagagttcaggtctaaactcagagaaacaaatcaaaa 3960

OY	3961	agatatgaatctcttaagcgcaaaactggtctctccacaatcttgaaagtgtgctgcgcaggcc	4020
Db	3961	agaatagaatctcttaagcgcaaaactggtctctccacaatcttgaaagtgtgctgcgcaggcc	4020
OY	4021	agcttggaatcaattctactccacaagatgtgacactgtgttgatgttcaacaacaagaat	4080
Db	4021	agcttggaatcaattctactccacaagatgtgacactgtgttgatgttcaacaacaagaat	4080
OY	4081	tgtccaaagcgcaatcattattccaagtygcgttaagttactctgcagagtttvgtatat	4140
Db	4081	tgtccaaagcgcaatcattattccaagtygcgttaagttactctgcagagtttvgtatat	4140
OY	4141	ctattggtctattgtgcatttggctttttgtttctctcttgggtctatttaagttaagaag	4200
Db	4141	ctattggtctattgtgcatttggctttttgtttctctcttgggtctatttaagttaagaag	4200
OY	4201	ggatatttaacctcagttccagaagaagcgtgtgaattctgaatgaaggaaaaattacattt	4260
Db	4201	ggatatttaacctcagttccagaagaagcgtgtgaattctgaatgaaggaaaaattacattt	4260
OY	4261	tgttttccacctctcctaactaaatttaaacatttctccattgtcggaatagagccataa	4320
Db	4261	tgttttccacctctcctaactaaatttaaacatttctccattgtcggaatagagccataa	4320
OY	4321	ctcaaaagtggtgaataaacaagtaacctgtgatttttgcattctccaatgaaatccagacct	4380
Db	4321	ctcaaaagtggtgaataaacaagtaacctgtgatttttgcattctccaatgaaatccagacct	4380
OY	4381	cttaactctatatgaagtgtgttcgcagaagctgttaagtgaataattcttaaccacaacta	4440
Db	4381	cttaactctatatgaagtgtgttcgcagaagctgttaagtgaataattcttaactccaacta	4440
OY	4441	ctttcgaaattagaccctccgcctgcgattctgtttttaacatattaaatgaatgttttaa	4500
Db	4441	ctttcgaaattagaccctccgcctgcgattctgtttttaacatattaaatgaatgttttaa	4500
OY	4501	attcttgatattttgataataatctcatattcatatttgtttcccttgcattctaatattt	4560
Db	4501	attcttgatattttgataataatctcatattcatatttgtttcccttgcattctaatattt	4560
OY	4561	ataataattgaaacaatctctctcgaagaagttccccagattccacaatgaagttctctgg	4620
Db	4561	ataataattgaaacaatctctctcgaagaagttccccagattccacaatgaagttctctgg	4620
OY	4621	catgcacacacacagagtaagaacatgattttagaaggtctaaacattgacattgtgctctga	4680
Db	4621	catgcacacacacagagtaagaacatgattttagaaggtctaaacattgacattgtgctctga	4680
OY	4681	tgcagaagctgaatatagaaagctctcccaagaatacacagattgttttaaaagctlaagggct	4740
Db	4681	tgcagaagctgaatatagaaagctctcccaagaagaatacacagattgttttaaaagctlaagggct	4740
OY	4741	agggggggaaactcgcgcctctctatagaaagctctcccgaggagccttctgaaggctgctc	4800
Db	4741	agggggggaaactcgcgcctctctatagaaagctctcccgaggagccttctgaaggctgctc	4800
OY	4801	cttggtctcgcgcgtgctgttattttctctctgcctctgaagctcttaagaagacttgctt	4860
Db	4801	cttggtctcgcgcgtgctgttattttctctctgcctctgaagctcttaagaagacttgctt	4860
OY	4861	ggatctccagttctctagacatagtgctgycgcagatgcaggtctccaatgagtttgcagag	4920
Db	4861	ggatctccagttctctagacatagtgctgycgcagatgcaggtctccaatgagtttgcagag	4920
OY	4921	tgaattcggaataataacttaagaatatatctctgtgtgaataatcagcacacagtagtccctgg	4980
Db	4921	tgaattcggaataataacttaagaatatatctctgtgtgaataatcagcacacagtagtccctgg	4980
OY	4981	tgttaagtgtgtgtacgctgt	5040
Db	4981	tgttaagtgtgtgtacgctgt	5040
OY	5041	taagaaactatattgtgggtgatactgggtgataaaatttggaatgtctcttttaaaagaatact	5100

ID	Sequence	Score	DB	Length	Query Match
Db 5041	taggaaccattcttctgggtatggtgcataaattggatgtctcttttaaaagaacc	99.5%	19	5299	Best Local Similarity 99.9% Pred. No. 0
Qy 5101	caaaagactcttggaaggttatcttctaagaatctctgagcgtgaagcaaccc	0	1	2	Matches 5269; Conservative 0; Mismatches 1; Indels 2; Gaps 2
Db 5101	caaaagactcttggaaggttatcttctaagaatctctgagcgtgaagcaaccc				
Qy 5161	cctgtgcacagccccacagcctcaagtggcacctctgtcttccccaatgaaggtg				
Db 5161	ctgtgtgcacagccccacagcctcaagtggcacctctgtcttccccaatgaaggtg				
Qy 5221	gtccccaatataataaacctctctgagcctgggcatgaagcagcaagg				
Db 5221	gtccccaatataataaacctctctgagcctgggcatgaagcagcaagg				
RESULT 2					
V51361	V51361 standard; DNA: 5299 BP.				
AC	V51361:				
AT	27-OCT-1998 (first entry)				
DE	Human TIGR promoter region DNA.				
XX	TIGR: trabecular meshwork induced glucocorticoid response protein; human;				
XX	diagnosis; glaucoma; polymorphism; steroid sensitivity; ss.				
XX	Homo sapiens.				
XX	WO9832850-A1.				
XX	30-JUL-1998.				
XX	09-JAN-1998; 98WO-US00468.				
XX	26-SEP-1997; 97US-0938669.				
XX	28-JAN-1997; 97US-0791154.				
XX	(REGC ) UNIV CALIFORNIA.				
XX	Chen H, Chen P, Nguyen TD, Polansky JR;				
XX	WPI: 1998-427946/36.				
XX	Use of TIGR nucleic acid sequences - used for, e.g. developing				
XX	products for diagnosis, prognosis and treatment of glaucoma				
XX	Claim 34; Fig 1; 105pp; English.				
XX	This sequence is a trabecular meshwork induced glucocorticoid response				
XX	protein (TIGR) promoter region which is used in a method for diagnosing				
XX	glaucoma in a patient. The method involves the detection of polymorphisms				
XX	whose presence is predictive of a mutation affecting TIGR response in the				
XX	patient and can be diagnostic of glaucoma or steroid sensitivity. Base				
XX	substitutions and base additions upstream of and within TIGR exons can				
XX	also be used to diagnose glaucoma.				
XX	Sequence 5299 BP; 1482 A; 1151 C; 1235 G; 1431 T; 0 other;				

Oy	121	ggaagaagagatcatcaactttagcaagagctcagagctgtgtctctcttatttagtga	180
Db	121	ggaagaagagagatcatccactttagcaagagctgtccagagctgtgtctctcttatttagtga	180
Oy	181	cagaatgtgtccctcgaaagagactatctctccaggaacatccatccatatgttaatc	240
Db	181	cagaatgtgtctctcgaaagagactatctctccaggaacatccatccatatgttaatc	240
Oy	241	catcaaacagagagcttaagaaacagagatgaatggtgactgtgccaaagaaatgtccag	300
Db	241	catcaaacagagagcttaagaaacagagatgaatggtgactgtgccaaagaaatgtccag	300
Oy	301	gagagccaatatgaatgaatgaatgaatgaatcttccctgtgttttaattccagaaaaatg	360
Db	301	gagagccaatatgaatgaatgaatgaatgaatcttccctgtgttttaattccagaaaaatg	360
Oy	361	atgagaccaaaaatcaatgaatagaagaacagctccagaaaaaagatgttcccaatgtg	420
Db	361	atgagaccaaaaatcaatgaatagaagaacagctccagaaaaaagatgttcccaatgtg	420
Oy	421	taattaaagtattgtctctctgtggaaagagaccccatgtgagctgtaatgtggaatatggaa	480
Db	421	taattaaagtattgtctctctgtggaaagagaccccatgtgagctgtaatgtggaatatggaa	480
Oy	481	aaagctcaaaaagcattgtctcgtatccagatcccaagtggaatttatctttaaaccagat	540
Db	481	aaagctcaaaaagcattgtctcgtatccagatcccaagtggaatttatctttaaaccagat	540
Oy	541	ggcatcactctgtggagagcaagttcaggaagtcatgttatgcaaaagacataacataac	600
Db	541	ggcatcactctgtggagagcaagttcaggaagtcatgttatgcaaaagacataacataac	600
Oy	601	agcaaaaatccaatatctcgcaaatgacagaggaataagggagactgtggaagcttcataac	660
Db	601	agcaaaaatccaatatctcgcaaatgacagaggaataagggagactgtggaagcttcataac	660
Oy	661	agtgatttagagcagtttgaacatgtctcgacaacacctcccgcttataccaggggaacaaaa	720
Db	661	agtgatttagagcagtttgaacatgtctcgacaacacctcccgcttataccaggggaacaaaa	720
Oy	721	atctaacctggagcttaagagcttggaatcttcaagaggaaatatgtaaaaactggaagacaaa	780
Db	721	atctaacctggagcttaagagcttggaatcttcaagaggaaatatgtaaaaactggaagacaaa	780
Oy	781	gacatgtgttaaagagcaaacagagacattgtggaaccttcaaaagacagatgtccctcagca	840
Db	781	gacatgtgttaaagagcaaacagagacattgtggaaccttcaaaagacagatgtccctcagca	840
Oy	841	ggagacctgtagagcatgtgcctttagaagaagcagtttctttagaagatcttaagaacctc	900
Db	841	ggagacctgtagagcatgtgcctttagaagaagcagtttctttagaagatctttagaagaacctc	900
Oy	901	ctgaaagatcatgtgaattttaaacaattttaaagataaaacaatatgagatcatatag	960
Db	901	ctgaaagatcatgtgaattttaaacaattttaaagatataaaacaatatgagatcatatag	960
Oy	961	cttagacaatgtgtcccaattttaaagatcagcatatacagaagatagaagtgctccagcttc	1020
Db	961	cttagacaatgtgtgtcccaattttaaagatcagcatatacagaagatagaagtgctccagcttc	1020
Oy	1021	ggattaggtccagaaatcatattgaataatcagtggtcccatccctaaatttttcaagaatgtc	1080
Db	1021	ggattaggtccagaaatcatattgaataatcagtggtcccatccctaaatttttcaagaatgtc	1080
Oy	1081	tgctaatagcccttcacaacagcccgatgtgtctgtgccttaacaacacatctataacccaa	1140
Db	1081	tgctaatagcccttcacaacagcccgatgtgtctgtgccttaacaacacatctataacccaa	1140
Oy	1141	gtgctctcaaaccatgtttaacgtgtcatctcagttaggttcccatcaaatgtccactccc	1200
Db	1141	gtgctctcaaaccatgtttaacgtgtcatctcagttaggttcccatcaaatgtccactccc	1200

QY	1201	tgttgacagcccatcccgctccacacagagatcctcccaactctgagactcttcgatactacgattgtc	1260
DB	1201	tgttgacagcccatcccgctccacacagagatcctcccaactctgagactcttcgatactacgattgtc	1260
QY	1261	tacagcagaagaagctccgttgaggggtgaggggtctcgtgtcttaaacccataactgtatgctctaac	1320
DB	1261	tacagcagaagaagctccgttgaggggtgaggggtctcgtgtcttaaacccataactgtatgctctaac	1320
QY	1321	accggaagctcacgtgcaaacctctgcccaccacaggcttaagcaaatctctccgtctccagctcc	1380
DB	1321	accggaagctcacgtgcaaacctctgcccaccacaggcttaagcaaatctctccgtctccagctcc	1380
QY	1381	cggctagctgaggaactcaagaagcgcacgcgcggcttaattcttgatgtgtatgataagatgag	1440
DB	1381	cggctagctgaggaactcaagaagcgcacgcgcggcttaattcttgatgtgtatgataagatgag	1440
QY	1441	gtttcacacataattagcccgagcttggtcttgaaactctgcacactcaaggttgatccacacactc	1500
DB	1441	gtttcacacataattagcccgagcttggtcttgaaactctgcacactcaaggttgatccacacactc	1500
QY	1501	agctccctaaagctgctgagatacaagagcatgatacgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc	1560
DB	1501	agctccctaaagctgctgagatacaagagcatgatacgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc	1560
QY	1561	ttaataaggaataaactgtgaattgttactaaaccacacagagggaataacagacaaagctgtga	1620
DB	1561	ttaataaggaataaactgtgaattgttactaaaccacacagagggaataacagacaaagctgtga	1620
QY	1621	taatttcaaggaattcttggagatgagggaaatgggccaatgagctgcgctctgctgataccagac	1680
DB	1621	taatttcaaggaattcttggagatgagggaaatgggccaatgagctgcgctctgctgataccagac	1680
QY	1681	caatggctccataactcttctcccccacacccaattcttaagaagctaaagtatacatcttaatt	1740
DB	1681	caatggctccataactcttctcccccacacccaattcttaagaagctaaagtatacatcttaatt	1740
QY	1741	caccagctctctgtgtgaagcctccacatcgttaactgaataaagaatatacataaactag	1800
DB	1741	caccagctctctgtgtgaagcctccacatcgttaactgaataaagaatatacataaactag	1800
QY	1801	ttccaattgggggccaactgtgtgtgtgtgtataggggaggggacataccccagagaactctc	1860
DB	1801	ttccaattgggggccaactgtgtgtgtgtgtataggggaggggacataccccagagaactctc	1860
QY	1861	tgaagagcccccggcagagaggtctctctccacagcttgagggaagcccttgcaagcacccggggctc	1920
DB	1861	tgaagagcccccggcagagaggtctctctccacagcttgagggaagcccttgcaagcacccggggctc	1920
QY	1921	tggggtgtctctgagcaaacctgacagcccgctgtgccaactgtgtgtgtgtgtatcaactctctag	1980
DB	1921	tggggtgtctctgagcaaacctgacagcccgctgtgccaactgtgtgtgtgtgtatcaactctctag	1980
QY	1981	gaactgtgtgcttcttatcttctgtgtgtaacccgtttcatatctcaaggcatcttaattgacaatt	2040
DB	1981	gaactgtgtgcttcttatcttctgtgtgtaacccgtttcatatctcaaggcatcttaattgacaatt	2040
QY	2041	tattgaggaactatactgtgcagacacacagagacaaatgctgtgacaaagcagctacatgc	2100
DB	2041	tattgaggaactatactgtgcagacacacagagacaaatgctgtgacaaagcagctacatgc	2100
QY	2101	ccctactctgttgaggtgtgacagtttctcatatggaagacgtgtgacagaagaataatbaabagcca	2160
DB	2101	ccctactctgttgaggtgtgacagtttctcatatggaagacgtgtgacagaagaataatbaabagcca	2160
QY	2161	gccaactttaaaccacagctgtcgtgaagaagaaataaacaacccactcttgaaagaaattgtgtgac	2220
DB	2161	gccaactttaaaccacagctgtcgtgaagaagaaataaacaacccactcttgaaagaaattgtgtgac	2220
QY	2221	agcatccctttaaagaagcgcacctccctctagcccccctgtgtctctcatcgtgtgcccggggag	2280
DB	2221	agcatccctttaaagaagcgcacctccctctagcccccctgtgtctctcatcgtgtgcccggggag	2280
QY	2281	cccccaagcccggaattcttccaagcctctctctctccatcagatcaagcgcgtgacagtgtgacct	2340

```
|||||
Db 2281 cccccaagccgaagcttccaaagccctccctcccaatcaatccaaagccgcagccgtgacct 2340
Oy 2341 gctcgtctcccgctgaatcgtctcgtgctagctcgtgaagactcctctgctccagct 2400
Db 2341 gctcgtctcccgctgaatcgtctcgtgctagctcgtgaagactcctctgctccagct 2400
Oy 2401 ccaagaaagaaatctgaagaaagaaatcaatctaaagaaatctgaagaaagaaatcttc 2460
Db 2401 ccaagaaagaaatctgaagaaagaaatcaatctaaagaaatctgaagaaagaaatcttc 2460
Oy 2461 ccaagaaagaaagggggccccaagctccaaagaaatccaaagaaagctgaagaaagaa 2520
Db 2461 ccaagaaagaaagggggccccaagctccaaagaaatccaaagaaagctgaagaaagaa 2520
Oy 2521 tggggaagcgtcgggctgaagcgggtcgtcaaaagcagaaagctgaagaaagcagctga 2580
Db 2521 tggggaagcgtcgggctgaagcgggtcgtcaaaagcagaaagctgaagaaagcagctga 2580
Oy 2581 gctcgaagaaatctcaagctgctcgaaggggctgggaagcttcctcgtctcctgagac 2640
Db 2581 gctcgaagaaatctcaagctgctcgaaggggctgggaagcttcctcgtctcctgagac 2640
Oy 2641 ccttatactcttcctcgtcgttggaagaaagaaatctcaagaaagcagctgaagcttc 2700
Db 2641 ccttatactcttcctcgtcgttggaagaaagaaatctcaagaaagcagctgaagcttc 2700
Oy 2701 aaaaagctcaagctgttaaaatctccaaagctgtgcaatgggttctccctcaagaaagcttat 2760
Db 2701 aaaaagctcaagctgttaaaatctccaaagctgtgcaatgggttctccctcaagaaagcttat 2760
Oy 2761 taaaagctgaagaaatagaaagcagactcattccaaagcgttaattcaagaaagaaatgaa 2820
Db 2761 taaaagctgaagaaatagaaagcagactcattccaaagcgttaattcaagaaagaaatgaa 2820
Oy 2821 tggagctcttctctcaatctctcctcctcctcctcctcctcctcctcctcctcctcctc 2880
Db 2821 tggagctcttctctcaatctctcctcctcctcctcctcctcctcctcctcctcctcctc 2880
Oy 2881 tgaagaaagcgttcgaaaaccttgaaatcaagaaagactcgttctctctcgtctcgtccat 2940
Db 2881 tgaagaaagcgttcgaaaaccttgaaatcaagaaagactcgttctctctcgtctcgtccat 2940
Oy 2941 ggtctgagctgtggaagcgttggaagactgtctcctcctcctcctcctcctcctcctcct 3000
Db 2941 ggtctgagctgtggaagcgttggaagactgtctcctcctcctcctcctcctcctcctcct 3000
Oy 3001 aaaaagaaaccttgcaagctcgtgtctgttgaaacctctccgtgtgtctcgttgaggg 3060
Db 3001 aaaaagaaaccttgcaagctcgtgtctgttgaaacctctccgtgtgtctcgttgaggg 3060
Oy 3061 ggaatgttggaaggggaagaaagcagagcgtggaagcgtgaagcacaaggggaagtgaag 3120
Db 3061 ggaatgttggaaggggaagaaagcagagcgtggaagcgtgaagcacaaggggaagtgaag 3120
Oy 3121 ggaagcgaagaaagcagagcgtggtgtgtcgaatcgtcctcaatcgaatcgaatcgaatc 3180
Db 3121 ggaagcgaagaaagcagagcgtggtgtgtcgaatcgtcctcaatcgaatcgaatcgaatc 3180
Oy 3181 caggaagcgaagcacaagctctcagaaagctcaatgaacccaagcacaatcttctct 3240
Db 3181 caggaagcgaagcacaagctctcagaaagctcaatgaacccaagcacaatcttctctct 3240
Oy 3241 tccctaagcagaatgaatgaatctgtcgaatgaatgaatgaatgaatgaatgaatgaatga 3300
Db 3241 tccctaagcagaatgaatgaatctgtcgaatgaatgaatgaatgaatgaatgaatgaatga 3300
Oy 3301 ggttaagcttctgctgctgaatcaaaaactggtcgaagcagaagctgaagcagaagctga 3360
Db 3301 ggttaagcttctgctgctgaatcaaaaactggtcgaagcagaagctgaagcagaagctga 3360
Oy 3361 taaaacttctcagccctgcaagcacaagcagcagcagcagcagcagcagcagcagcagcag 3420
|||||
Db 3361 taaaacttctcagccctgcaagcacaagcagcagcagcagcagcagcagcagcagcagcag 3420
Oy 3421 agtgaccctgcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 3480
Db 3421 agtgaccctgcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 3480
Oy 3481 acaagctcattcaaaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 3540
Db 3481 acaagctcattcaaaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 3540
Oy 3541 gttcaagaaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 3600
Db 3541 gttcaagaaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 3600
Oy 3601 cctgaatcttaataataataatcttccctcaagaaagctgaatctcgaagcagcagcagcag 3660
Db 3601 cctgaatcttaataataataatcttccctcaagaaagctgaatctcgaagcagcagcagcag 3660
Oy 3661 gtagtaactgaagcgtgaagaaatgaatgaatgaatgaatgaatgaatgaatgaatgaatga 3720
Db 3661 gtagtaactgaagcgtgaagaaatgaatgaatgaatgaatgaatgaatgaatgaatgaatga 3720
Oy 3721 ggaatgaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 3780
Db 3721 ggaatgaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 3780
Oy 3781 taaagcacaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 3840
Db 3781 taaagcacaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 3840
Oy 3841 caattcaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 3900
Db 3841 caattcaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 3900
Oy 3901 taaacaacaacccagctgttaaatgtctcaagctcaagcgttcaagcagcagcagcagcagc 3959
Db 3901 taaacaacaacccagctgttaaatgtctcaagcgttcaagcagcagcagcagcagcagcagc 3959
Oy 3961 aagaatgaatgaatcttaagaaagcagcagcagcagcagcagcagcagcagcagcagcagc 4019
Db 3961 aagaatgaatgaatcttaagaaagcagcagcagcagcagcagcagcagcagcagcagcagc 4019
Oy 4020 cagtttggaatgaatcttaagaaagcagcagcagcagcagcagcagcagcagcagcagcagc 4079
Db 4020 cagtttggaatgaatcttaagaaagcagcagcagcagcagcagcagcagcagcagcagcagc 4079
Oy 4080 tgcctcaagaaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 4139
Db 4080 tgcctcaagaaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 4139
Oy 4140 tttaattgctatctgcaatctgcttcttctcctcctcctcctcctcctcctcctcctcctc 4199
Db 4140 tttaattgctatctgcaatctgcttcttctcctcctcctcctcctcctcctcctcctcctc 4199
Oy 4200 ggaatgaatgaatcttaagaaagcagcagcagcagcagcagcagcagcagcagcagcagc 4259
Db 4200 ggaatgaatgaatcttaagaaagcagcagcagcagcagcagcagcagcagcagcagcagc 4259
Oy 4260 tgccttaacacacccctcaacaaatcaacatcttaacatcttaacatcttaacatcttaacat 4319
Db 4260 tgccttaacacacccctcaacaaatcaacatcttaacatcttaacatcttaacatcttaacat 4319
Oy 4320 actcaagaaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 4379
Db 4320 actcaagaaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 4379
Oy 4380 ttataacataataataataataataataataataataataataataataataataataataata 4439
Db 4380 ttataacataataataataataataataataataataataataataataataataataataata 4439
Oy 4440 acttgaatgaatgaatgaatgaatgaatgaatgaatgaatgaatgaatgaatgaatgaatga 4499
Db 4440 acttgaatgaatgaatgaatgaatgaatgaatgaatgaatgaatgaatgaatgaatgaatga 4499
```

[illegible]

FT		/note= "Wild type C is replaced by G"
XX		
PN	W09832850-A1.	
XX		
PD	30-JUL-1998.	
XX		
PE	09-JAN-1998;	98WO-US00468.
XX		
PR	26-SEP-1997;	97US-0938669.
XX		
PA	28-JAN-1997;	97US-0791134.
XX		
XX	(REGC ) UNIV CALIFORNIA.	
PI		
XX	Chen H, Chen P, Nguyen TD, Polansky JR;	
DR	WPI: 1998-427946/36.	
XX		
PT	Use of TIGR nucleic acid sequences - used for, e.g. developing	
XX	products for diagnosis, prognosis and treatment of glaucoma	
PS	Disclosure: Fig 2; 105pp; English.	
XX		
CC	This sequence is a trabecular meshwork induced glucocorticoid response	
CC	protein (TIGR) promoter mutant, TIGRmt1, which is used in a method for	
CC	diagnosing glaucoma in a patient. The method involves the detection of	
CC	polymorphisms whose presence is predictive of a mutation affecting TIGR	
CC	response in the patient and can be diagnostic of glaucoma or steroid	
CC	sensitivity. Base substitutions and base additions upstream of and within	
CC	TIGR exons can also be used to diagnose glaucoma.	
XX		
SO	Sequence 5300 BP; 1482 A; 1151 C; 1236 G; 1431 T; 0 other;	

[illegible]



Qy	541	ggcatcacctcvgvggagagcttcaggaagtgcatglttagcaaaagacataacaataac	600
Db	541	ggcatcacctcvgvggagagtgcatggaagtgcatglttagcaaaagacataacaataac	600
Qy	601	agcaaaatcaaaaatctccggaatactgcagagaggaataatgggagactcggaagaagctttcataac	660
Db	601	agcaaaatcaaaaatctccggaatactgcagagaggaataatgggagactcggaagaagctttcataac	660
Qy	661	atgatatgaagctgtgacacatgtctcgaacacacctcccgctctataccagggacaacaaaa	720
Db	661	atgatatgaagctgtgacacatgtctcgaacacacctcccgctctataccagggacaacaaaa	720
Qy	721	atgacatgggcttaagccctggaactctcaagaggaaatatgaaaaactgagagcaaaacaaaa	780
Db	721	atgacatgggcttaagccctggaactctcaagaggaaatatgaaaaactgagagcaaaacaaaa	780
Qy	781	ggcatggtttaaaaggaacacagaaactgtgagccttcataagagagagggccctctagaa	840
Db	781	ggcatggtttaaaaggaacacagaaactgtgagccttcataagagagagggccctctagaa	840
Qy	841	gggacccctgagagcatctgtcctctatagaaagccagcttctctaaaggaaactttaaagaact	900
Db	841	gggacccctgagagcatctgtcctctatagaaagccagcttctctaaaggaaactttaaagaact	900
Qy	901	ctgaaagatcatgaaatcttaaacacttttaagtaataaacaataatgcatactgcatag	960
Db	901	ctgaaagatcatgaaatcttaaacacttttaagtaataaacaataatgcatactgcatag	960
Qy	961	cttaagacatgggtccccaattttataagtcagagcacaagaagataacggtgccagctcc	1020
Db	961	cttaagacatgggtccccaattttataagtcagagcacaagaagataacggtgccagctcc	1020
Qy	1021	ggataggttcagaaatcatctatagaataatcacgtgtcccatccataacttttcagaatgac	1080
Db	1021	ggataggttcagaaatcatctatagaataatcacgtgtcccatccataacttttcagaatgac	1080
Qy	1081	tgtcatagccttcacacagagccgaatgtgtctgacatacaacacatctacaaccaa	1140
Db	1081	tgtcatagccttcacacagagccgaatgtgtctgacatacaacacatctacaaccaa	1140
Qy	1141	gtgcccacaacatgtgttaaagctgtcatctccagtaggttcccatatacaaatggcccctccc	1200
Db	1141	gtgcccacaacatgtgttaaagctgtcatctccagtaggttcccatatacaaatggcccctccc	1200
Qy	1201	tgtcagacccacatcccgctccacagagaggtctcccaactctagagctctgcatcaagatg	1260
Db	1201	tgtcagacccacatcccgctccacagagaggtctcccaactctagagctctgcatcaagatg	1260
Qy	1261	tacagacagaaagctccgtgtaggggtgaggtctgtgtcttaacactacctctgatagtcctaac	1320
Db	1261	tacagacagaaagctccgtgtaggggtgaggtctgtgtcttaacactacctctgatagtcctaac	1320
Qy	1321	accctgagccacatctgcaactctgtcctcccaaggttcaagaaattctctgtcttaagcttc	1380
Db	1321	accctgagccacatctgcaactctgtcctcccaaggttcaagaaattctctgtcttaagcttc	1380
Qy	1381	cccgtagctcggagactacagagcgacagcccgccgctaaattctgtatgttagtagaagtgg	1440
Db	1381	cccgtagctcggagactacagagcgacagcccgccgctaaattctgtatgttagtagaagtgg	1440
Qy	1441	gtttcacacatataagccgggtgtgtctgtaaactctgacactcgaagtgtatccaccacctc	1500
Db	1441	gtttcacacatataagccgggtgtgtctgtaaactctgacactcgaagtgtatccaccacctc	1500
Qy	1501	agccctctaaagtgtcgtggagatacagagcttagtctacccgcccgggccaaggtctgagt	1560
Db	1501	agccctctaaagtgtcgtggagatacagagcttagtctacccgcccgggccaaggtctgagt	1560
Qy	1561	ctcaataggaatacaactgtgattgtttactaaaccaaacaggaagaaacagaaagcgtgta	1620
Db	1561	ctcaataggaatacaactgtgattgtttactaaaccaaacaggaagaaacagaaagcgtgta	1620
Qy	1621	taatttcagagatctctgtgagctggggaatggtgtccatgagctgcctctagctccagac	1680
Db	1621	taatttcagagatctctgtgagctggggaatggtgtccatgagctgcctctagctccagac	1680
Qy	1681	caatgctctcaacactctctccacacccatctcaatttcagagctaaagttaactttat	1740
Db	1681	caatgctctcaacactctctccacacccatctcaatttcagagctaaagttaactttat	1740
Qy	1741	caacatgctttgtgtgaagcctccaactcgttactgaaataagatatacaataactag	1800
Db	1741	caacatgctttgtgtgaagcctccaactcgttactgaaataagatatacaataactag	1800
Qy	1801	ttccatttggggccatctgtgtgtgtgtataagggaggggcatataccccagaactcct	1860
Db	1801	ttccatttggggccatctgtgtgtgtgtataagggaggggcatataccccagaactcct	1860
Qy	1861	tgaagcccccgcaagaggttctctccacgcctgggggaacccctgcaagcacccgggtcc	1920
Db	1861	tgaagcccccgcaagaggttctctccacgcctgggggaacccctgcaagcacccgggtcc	1920
Qy	1921	tgggtgtcttgagcaaacctgacagcccggtgcacatggtgtttgttatactctctag	1980
Db	1921	tgggtgtcttgagcaaacctgacagcccggtgcacatggtgtttgttatactctctag	1980
Qy	1981	gacccgtgtcttctcaattctgtgtgagctcgttcaattctcaagcattcatgtgcaatt	2040
Db	1981	gacccgtgtcttctcaattctgtgtgagctcgttcaattctcaagcattcatgtgcaatt	2040
Qy	2041	tattgatactatatactgcccagacacagagacaacaaatggtgtgaacaaagcagctac	2100
Db	2041	tattgatactatatactgcccagacacagagacaacaaatggtgtgaacaaagcagctac	2100
Qy	2101	cctaaccttcgtggaagtgcacagltctctcataggaagcgtgcagaagaaataatagcca	2160
Db	2101	cctaaccttcgtggaagtgcacagltctctcataggaagcgtgcagaagaaataatagcca	2160
Qy	2161	ggccaattaaacccagtggtgtgaaagaagaataaacccacttctgaagaattgtgcgc	2220
Db	2161	ggccaattaaacccagtggtgtgaaagaagaataaacccactctgaagaattgtgcgc	2220
Qy	2221	agcatcccttaacaaaggccaactcccttaagcccccctgtctgctccatctgtcccgagag	2280
Db	2221	agcatcccttaacaaaggccaactcccttaagcccccctgtctgctccatctgtcccgagag	2280
Qy	2281	cccccaagcccgagcttctcaagcctctctctccatcaagtcaacgctgcagctgcgc	2340
Db	2281	cccccaagcccgagcttctcaagcctctctctccatcaagtcaacgctgcagctgcgc	2340
Qy	2341	gctctgcttcccggtgaatctgctgtgtgtatcttgtagctgtgaaacctctgtctccaggt	2400
Db	2341	gctctgcttcccggtgaatctgctgtgtgtgtatcttgtagctgtgaaacctctgtctccaggt	2400
Qy	2401	ccagaagaagaaatgagaaagaaactcgtacaaagagaaatctcgaaggtgagagctgttc	2460
Db	2401	ccagaagaagaaatgagaaagaaactcgtacaaagagaaatctcgaaggtgagagctgttc	2460
Qy	2461	ctcagaaggaaaggggcctccacgctccagagaaattccagaggtgagagctgcagagag	2520
Db	2461	ctcagaaggaaaggggcctccacgctccagagaaattccagaggtgagagctgcagagag	2520
Qy	2521	tggggagcgtctggagcgtgcgaacgggtgctgaaagacaggaaggtgaaagggcagagctgta	2580
Db	2521	tggggagcgtctggagcgtgcgaacgggtgctgaaagacaggaaggtgaaagggcagagctgta	2580
Qy	2581	gcttgcacaaatgctcaagtctgtctcaacggggcttggaagcttccgcttgcctcttgaaac	2640
Db	2581	gcttgcacaaatgctcaagtctgtctcaacggggcttggaagcttccgcttgcctcttgaaac	2640
Qy	2641	cttttatcttctctgctgtgtgaggaagaaagctatcttcatgaaaggtacagcttcc	2700
Db	2641	cttttatcttctctgctgtgtgaggaagaaagctatcttcatgaaaggtacagcttcc	2700
Qy	2701	ataaagtcagctgttaaaaatctccagggtgtgtcagtgttctctccacgaaggccttat	2760



Db 2701 ataaagtcagctgttaaaattccaaggtgtgtacatgtgttttctctcacgaagcccttat 2760  
QY 2761 ttaattgggaataagaaagagctcatattccagaagccgttaattcaacgaataaagtac 2820  
Db 2761 ttaattgggaataagaaagagctcatattccagaagccgttaattcaacgaataaagtac 2820  
QY 2821 tgaagctcttctctctcatgtctcttcggaacatacgaacccgtgtgtgaacttgcctta 2880  
Db 2821 tgaagctcttctctctcatgtctcttcggaacatacgaacccgtgtgtgaacttgcctta 2880  
QY 2881 tgaagaacggttcgaataaacttcgaatacagaagacccgttctctctcgtctcgtccatc 2940  
Db 2881 tgaagaacggttcgaataaacttcgaatacagaagacccgttctctctcgtctcgtccatc 2940  
QY 2941 ggttgcctgtgtgcacccgttcggaaggtctctctctcccgggccatagctctctcgtc 3000  
Db 2941 ggttgcctgtgtgcacccgttcggaaggtctctctctcccgggccatagctctctcgtc 3000  
QY 3001 ataaagaaccttcgaactcctcgtctcgttcgaacacttccctgtgaattcctcgttcgaagg 3060  
Db 3001 ataaagaaccttcgaactcctcgtctcgttcgaacacttccctgtgaattcctcgttcgaagg 3060  
QY 3061 ggaatgtgaagaagggaagaagagcagagctggaacagctgaagccacagggaggtggaagg 3120  
Db 3061 ggaatgtgaagaagggaagaagagcagagctggaacagctggaagccacagggaggtggaagg 3120  
QY 3121 ggaacagaagagcagcagaagcctggtgtcctcactcagttcctcactgaatcaagctc 3180  
Db 3121 ggaacagaagagcagcagaagcctggtgtcctcactcagttcctcactgaatcaagctc 3180  
QY 3181 caagacacgaagacacacatctcctcagaagaagcctcaatgaacccaacagccacatttccct 3240  
Db 3181 caagacacgaagacacacatctcctcagaagaagcctcaatgaacccaacagccacatttccct 3240  
QY 3241 tcccttaagcatagacaatgtgcatttgcctcaataacaaagaatgcagagactaacctgtc 3300  
Db 3241 tcccttaagcatagacaatgtgcatttgcctcaataacaaagaatgcagagactaacctgtc 3300  
QY 3301 ggaagcttctgccttcgcatctcaaaaactgtggcagagcagaagtggaaaatgccagaagt 3360  
Db 3301 ggaagcttctgccttcgcatctcaaaaactgtggcagagcagaagtggaaaatgccagaagt 3360  
QY 3361 ttaaaccttctcacacccgcagacaccccaacgcagctcagagctgaactgcgcgcagacagc 3420  
Db 3361 ttaaaccttctcacacccgcagacaccccaacgcagctcagagctgaactgcgcgcagacagc 3420  
QY 3421 agtgaacctgcagcgcagggaggaagaagaagaagaggaatagtgataagcaagaag 3480  
Db 3421 agtgaacctgcagcgcagggaggaagaagaagaagaggaatagtgataagcaagaag 3480  
QY 3481 acgaattcatctcaagggcagtggaattgaaccacagggatatagtcccaagtgcacctg 3540  
Db 3481 acgaattcatctcaagggcagtggaattgaaccacagggatatagtcccaagtgcacctg 3540  
QY 3541 gtctctaggaagcaggtctaatctgtgtggggaataaactcagttcaagggaggtcggaga 3600  
Db 3541 gtctctaggaagcaggtctaatctgtgtggggaataaactcagttcaagggaggtcggaga 3600  
QY 3601 cctgaattctcaatactaatcttctcctcttaacagctgaagtaattctgaagaatcacaag 3660  
Db 3601 cctgaattctcaatactaatcttctcctcttaacagctgaagtaattctgaagaatcacaag 3660  
QY 3661 gttatgaactgaagctgttaagaatactaatgttctcctctatagaactcttctctctgtc 3720  
Db 3661 gttatgaactgaagctgttaagaatactaatgttctcctctatagaactcttctctctgtc 3720  
QY 3721 ggaattcagcagcagaagggaatcccgcttctcttaacagaagaataaacttccctaaag 3780  
Db 3721 ggaattcagcagcagaagggaatcccgcttctcttaacagaagaataaacttccctaaag 3780  
QY 3781 taaagccaaacagattcaagcctaggtctctgtcgtacataatgtgttcttgaataat 3840  
Db 3781 taaagccaaacagattcaagcctaggtctctgtcgtacataatgtgttcttgaataat 3840

QY 3841 cattcagcagatgttactatctgattccagaataatgaaactaagtaaccttgcgtcagctg 3900  
Db 3841 cattcagcagatgttactatctgattccagaataatgaaactaagtaaccttgcgtcagctg 3900  
QY 3901 taaacaacaacccagttgtaaatgtctcaagtctcaagcttaacttcagaaaccaatcaaa- 3959  
Db 3901 taaacaacaacccagttgtaaatgtctcaagtctcaagcttaacttcagaaaccaatcaaa- 3960  
QY 3960 aagaataagaatctttagagaataactgttcttcccaatctcgaaggtgtgtccgaagg 4019  
Db 3961 aagaataagaatctttagagaataactgttcttcccaatctcgaaggtgtgtccgaagg 4019  
QY 4020 cagttggaataattactacacagtatatgaacacggttgcgtgtgaataacaaacaaag 4079  
Db 4020 cagttggaataattactacacagtatatgaacacggttgcgtgtgaataacaaacaaag 4079  
QY 4080 ttgctcaagaagcacaatcatatttcaagttggtttaaagttactcttcgacagtttgcctata 4139  
Db 4080 ttgctcaagaagcacaatcatatttcaagttggtttaaagttactcttcgacagtttgcctata 4139  
QY 4140 ttatattgctcaattgcacattgtccttcttcttctccttgggttcaataagttaagca 4199  
Db 4140 ttatattgctcaattgcacattgtccttcttcttctccttgggttcaataagttaagca 4199  
QY 4200 ggaattatcaactcaagttccagaagccgtgtgaatttgaatgaggaataaattacattc 4259  
Db 4200 ggaattatcaactcaagttccagaagccgtgtgaatttgaatgaggaataaattacattc 4259  
QY 4260 ttgtcttcaacacccctcctaactaaattcaacatttattccattcgtggaatagagccataa 4319  
Db 4260 ttgtcttcaacacccctcctaactaaattcaacatttattccattcgtggaatagagccataa 4319  
QY 4320 acccaaaagtgtataacagtaacctgtgtatttgcataatccaatgaaatcccaagacat 4379  
Db 4320 acccaaaagtgtataacagtaacctgtgtatttgcataatccaatgaaatcccaagacat 4379  
QY 4380 tttaataataattacaagttgttcagataagttgtgaatgaataattatataacaaact 4439  
Db 4380 tttaataataattacaagttgttcagataagttgtgaatgaataattatataacaaact 4439  
QY 4440 actttgaataatgaacctcctcgtcgtgaatcctgttcttcaacataataataaactgtttaa 4499  
Db 4440 actttgaataatgaacctcctcgtcgtgaatcctgttcttcaacataataataaactgtttaa 4499  
QY 4500 aatttgaataatttgaataatcatattcatattcatattgttctccttgcataatctc 4559  
Db 4500 aatttgaataatttgaataatcatattcatattcatattgttctccttgcataatctc 4559  
QY 4560 tatataattgaaataactcttctcgaagaaggtccccaagattccacaagaaggttcttg 4619  
Db 4560 tatataattgaaataactcttctcgaagaaggtccccaagattccacaagaaggttcttg 4619  
QY 4620 gcatctcacacacacagtaagaactgaattgaaggctaaacattgcacattgcgtgcctgag 4679  
Db 4620 gcatctcacacacacagtaagaactgaattgaaggctaaacattgcacattgcgtgcctgag 4679  
QY 4680 atgcagaactgaataatgaagaattctccccaagaatacacagttgtttaaagaatagggt 4739  
Db 4680 atgcagaactgaataatgaagaattctccccaagaatacacagttgtttaaagaatagggt 4739  
QY 4740 gaagggggaataatctgcgcgtctctataggaattgtcccccggggccctgcgtgaaggtgtc 4799  
Db 4740 gaagggggaataatctgcgcgtctctataggaattgtcccccggggccctgcgtgaaggtgtc 4799  
QY 4800 ccttgcgtctcgtgcgtgttatttcttctcgttccctgtcgaagcttcaaggagctgtc 4859  
Db 4800 ccttgcgtctcgtgcgtgttatttcttctcgttccctgtcgaagcttcaaggagctgtc 4859  
QY 4860 tgaatctccagcttcccaagcatagtgccctgcgcagagcgcaggtctcaatgaagtctcaga 4919  
Db 4860 tgaatctccagcttcccaagcatagtgccctgcgcagagcgcaggtctcaatgaagtctcaga 4919



Dp	661	cttaagacaatgggcccccaattctataaaagcagagcatacagatataacgtgccagctcc	1020
Oy	1021	ggaataggctcagaaatcatagaatcaactgctgtcccaatcccaactttttcagatgac	1080
Dp	1021	ggataggctcagaaatcatctagaaaataacactgctgtcccaatcccaactttttcagatgac	1080
Oy	1081	tgctatagccccctcacacacacagggccgagtgctgtctgacctacaaaccacatctacaaccaa	1140
Dp	1081	tgctatagccccctcacacacacagggccgagtgctgtctgacctacaaaccacatctacaaccaa	1140
Oy	1141	gtgccttaaaccaattgcttaaaagtgtcatctccaaataggtcccatataaaatgtccactccc	1200
Dp	1141	gtgccttaaaccaattgcttaaaagtgtcatctccaaataggtcccatataaaatgtccactccc	1200
Oy	1201	tgctgacagcccatccgcctccacagagagatcccccctctagagctctgcagctacagatgt	1260
Dp	1201	tgctgacagcccatccgcctccacagagagatcccccctctagagctctgcagctacagatgt	1260
Oy	1261	tacagccagaagaagctccgctgagaggttgagaggtctgtgctctaacactacactgtatgcttac	1320
Dp	1261	tacagccagaagaagctccgctgagaggttgagaggtctgtgctctaacactacactgtatgcttac	1320
Oy	1321	acctgagatctcaactgcaaacctctgtccctcccaaggtttcaaggaattctccctgtctcagctcc	1380
Dp	1321	acctgagatctcaactgcaaacctctgtccctcccaaggtttcaaggaattctccctgtctcagctcc	1380
Oy	1381	cggcgtaagcttgagagcttaaaagggcgacagcccgagcctaatttttgatgtttagtagagatggg	1440
Dp	1381	cggcgtaagcttgagagcttaaaagggcgacagcccgagcctaatttttgatgtttagtagagatggg	1440
Oy	1441	gtttcacacataattagaccgggctgtgctcttgaaactcctgaaactctaaaggtgaattcacaccactcc	1500
Dp	1441	gtttcacacataattagaccgggctgtgctcttgaaactcctgaaactctaaaggtgaattcacaccactcc	1500
Oy	1501	agctcctctaaagtgctcgtgagatctacagagcatagtgtaacgcgcgcggccagaggttccagtgtc	1560
Dp	1501	agctcctctaaagtgctcgtgagatctacagagcatagtgtaacgcgcgcggccagagaggttccagtgtc	1560
Oy	1561	ttaataagagaaataactctgaaatctgtttacttaaaaccaaagagagaaagacaaagactgtga	1620
Dp	1561	ttaataagagaaataactctgaaatctgtttacttaaaaccaaagagagaaagacaaagactgtga	1620
Oy	1621	ttaattcagaaggaattctctgagatctgaggaatggtgtgcataagctgcgcctgtctagttccagac	1680
Dp	1621	ttaattcagaaggaattctctgagatctgaggaatggtgtgcataagctgcgcctgtctagttccagac	1680
Oy	1681	caactgtgctcatcaactttctctccctcaactcaattctcaggctaaagttaaccatttcaat	1740
Dp	1681	caactgtgctcatcaactttctctccctcaactcaattctcaggctaaagttaaccatttcaat	1740
Oy	1741	cacacagtgcttttttggagaaagcccacacacgttaactcgaataaagataaagataaataaactag	1800
Dp	1741	cacacagtgcttttttggagaaagcccacacacgttaactcgaataaagataaagataaataaactag	1800
Oy	1801	ttccacatttgaggccaactctgtgtgtgtataagggagggagacataaaccagagactcc	1860
Dp	1801	ttccacatttgaggccaactctgtgtgtgtataagggagggagacataaaccagagactcc	1860
Oy	1861	tgaagagccccggcagagaggttctctctccagactgagggagagccctgcagagaccggggtcc	1920
Dp	1861	tgaagagccccggcagagaggttctctctccagactgagggagagccctgcagagaccggggtcc	1920
Oy	1921	tgggtgtgcctcggagaaacctgcagagcccggtgcacactgtgtgtgtttttataactctcagg	1980
Dp	1921	tgggtgtgcctcggagaaacctgcagagcccggtgcacactgtgtgtgtttttataactctcagg	1980
Oy	1981	gacactgtgacttctatctctgtgtgtacactggttcatctacatccagagcatctatgacaat	2040
Dp	1981	gacactgtgacttctatctctgtgtgtacactggttcatctacatccagagcatctatgacaat	2040
Oy	2041	tatttgatctactatatactctgcagacacacagagacaaatgtgtagcaagcaatcactgc	2100

Dh	2041	tatvgagtaactatatactgcgcagacacaccagagaaacaaatvgtvgacaaagcagtcac	2100
Qy	2101	ccctacctctgtvgagvgtgacagttcttcatavgaaagcgtgcagaaagaaatcaacagcca	2160
Dh	2101	ccctacctctctvgagvgtgacagttcttcatavgaaagcgtgcagaaagaaatcaatagcca	2160
Qy	2161	gccaaactaaaacccaagtcgtcaaaagaaagaaataaaacacactctgaaagaaattgtgcgc	2220
Dh	2161	gccaaactaaaacccaagtcgtcaaaagaaagaaataaaacacactctgaaagaaattgtgcgc	2220
Qy	2221	agcatccctttaaacaagagccactccctcagcgcgccctctgcctccactctgtgcccgagag	2280
Dh	2221	agcatccctttaaacaagagccactccctcagcgcgccctctgcctccactctgtgcccgagag	2280
Qy	2281	cccccaagcccgagtccttcacagccctctctccatcatgctacacagcgttcagactgacct	2340
Dh	2281	cccccaagcccgagtccttcacagccctctctctccatcatgctacacagcgttcagactgacct	2340
Qy	2341	gacctgcctcccgvgaaatcgtctccgtgtgcatctgagctcvgaaagactctctgtcccaagct	2400
Dh	2341	gacctgcctcccgvgaaatcgtctccgtgtgcatctgagctcvgaaagactctctgtcccaagct	2400
Qy	2401	ccaaagaaagaaatvgaaagagagaaactctgctcaaaagagagaaatctgaaagggaaagttctt	2460
Dh	2401	ccaaagaaagaaatvgaaagagagaaactctgctcaaaagagagaaatctgaaagggaaagttctt	2460
Qy	2461	ctcaaaagagaaagagagcctccacagctccaaagagaaatctccaaagagagctgcagagagag	2520
Dh	2461	ctcaagagagaaagagagcctccacagctccaaagagaaatctccaaagagagctgcagagagag	2520
Qy	2521	tgvggagcgtcvggagctcgaagcgggtgcctgaaagagcagagaaagctgaaagaaagcctgaa	2580
Dh	2521	tgvggagcgtcvggagctcgaagcgggtgcctgaaagagcagagaaagctgaaagaaagcctgaa	2580
Qy	2581	gctgcgcgaagatgctcagagtgctgtctcaacggggcttgagaggtttctccgtgtccctccgtgagc	2640
Dh	2581	gctgcgcgaagatgctcagagtgctgtctcaacggggcttgagaggtttctccgtgtccctccgtgagc	2640
Qy	2641	ctcttcacactctctccctcgtctcgaagagagaaagctcaatctcaatcgaagagagagctccttc	2700
Dh	2641	ctcttcacactctctccctcgtctcgaagagagaaagctcaatctcaatctcaagagagagctccttc	2700
Qy	2701	ataaagctcagctgtataaaatccaaaggtgvgcatvgggtttctctctccacgaagccttat	2760
Dh	2701	ataaagctcagctgtataaaatccaaaggtgvgcatvgggtttctctctccacgaagccttat	2760
Qy	2761	ttaaatgggaataataggaagcgaagctcaattctctcagcgcgttaataatcgaagaaagagagac	2820
Dh	2761	ttaaatgggaataataggaagcgaagctcaattctctcagcgcgttaataatcgaagaaagagagac	2820
Qy	2821	tggaagctctctctctcaatgctctctctcggacaactacgaagccctgvtggaactggctta	2880
Dh	2821	tggaagctctctctctctcaatgctctctctcggacaactacgaagccctgvtggaactggctta	2880
Qy	2881	tgcaagacggttcgaaaaccttvgaaatcgaagagactcgggttctctctctgtgtccatc	2940
Dh	2881	tgcaagacggttcgaaaaccttvgaaatcgaagagactcgggttctctctctgtgtccatc	2940
Qy	2941	ggttcgctcgtgcagacggtgagacaaagtgtctctctccctcgggacaaagctctctgcct	3000
Dh	2941	ggttcgctcgtgcagacggtgagacaaagtgtctctctccctcgggacaaagctctctgcct	3000
Qy	3001	ataaagacccctcgcagctcctcgtctcgttgaaacactccctcgtgaaatctctctgtgaaaggg	3060
Dh	3001	ataaagacccctcgcagctcctcgtctcgttgaaacactccctcgtgaaatctctctgtgaaaggg	3060
Qy	3061	ggagctcgaagagggaaagagagcagagcctggaagcagctcgaagcacaagggaggtgagaggg	3120
Dh	3061	ggagctcgaagagggaaagagagcagagcctggaagcagctcgaagcacaagggaggtgagaggg	3120
Qy	3121	ggacagggagagcagagcagaagcctggtgtgctctcatcagctccactcgtgatacagctcagctc	3180
Dh	3121	ggacagggagagcagagcagaagcctggtgtgctctcatcagctccactcgtgatacagctcagctc	3180



AC	V51365.
AT	27-OCT-1998 (first entry)
XX	
DE	Human TIGR promoter mutant TIGRmt4 DNA.
KX	TIGR; trabecular meshwork induced glucocorticoid response protein; human;
KW	diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.
OS	Homo sapiens.
OS	Synthetic.
XX	
FH	
FT	Key location/Qualifiers
FT	mutation 4256
XX	/tag= A
XX	/note= "wild-type A is replaced by G"
PN	W09832850-A1.
XX	
PD	30-JUL-1998.
XX	
PF	09-JAN-1998; 98WO-US00468.
PR	26-SEP-1997; 97US-0938669.
PR	28-JAN-1997; 97US-0791154.
PA	(REGC ) UNIV CALIFORNIA.
XX	
PI	Chen H, Chen P, Nguyen TD, Polansky JR;
XX	
DR	WPI: 1998-427946/36.
PT	Use of TIGR nucleic acid sequences - used for, e.g. developing
PT	products for diagnosis, prognosis and treatment of glaucoma
XX	
PS	Disclosure: Fig 2; 105pp. English.
XX	
CC	This sequence is a trabecular meshwork induced glucocorticoid response
CC	protein (TIGR) promoter mutant, TIGRmt4, which is used in a method for
CC	diagnosing glaucoma in a patient. The method involves the detection of
CC	polymorphisms whose presence is predictive of a mutation affecting TIGR
CC	response in the patient and can be diagnostic of glaucoma or steroid
CC	sensitivity. Base substitutions and base additions upstream of and within
CC	TIGR exons can also be used to diagnose glaucoma.
XX	
SQ	Sequence 5300 BP: 1481 A; 1152 C; 1236 G; 1431 T; 0 other:
	Query Match 99.5%; Score 5244.8; DB 19; Length 5300;
	Best Local Similarity 99.9%; Pred. No. 0;
	Matches 5268; Conservative 0; Mismatches 2; Indels 2; Gaps 2
OY	1 acccttgatcatttaaccacagggcgcttatgatgaagaatgagataacaatgtgaag 60
DB	1 acccttgcctcagttcaaccacaggcgcatcatgaaagaatgataccaatgtgaag 60
OY	61 tccctaacaactatagacctcattccgagtatagtcttccttgagagatgataagaatca 120
DB	61 tccctaacaactatagacctcattccgagtatagtcttccttgagagatgataagaatca 120
OY	121 ggaagaagagatatcacagttgaccaaagtgtccaggctgctgtcctctattttagtag 180
DB	121 ggaagaagagatatcacagttgaccaaagtgtccaggctgctgtcctctattttagtag 180
OY	181 cagatgttgtctcttgacaagaagctattcttcggaaaatccaatccatatgtgtaattc 240
DB	181 cagatgttgtctcttgacaagaagctattcttcggaaaatccaatccatatgtgtaattc 240
OY	241 catcaaacaggagctaaagaacaggaaatagatgagggcacttggcccagaagaataatgccag 300
DB	241 catcaaacaggagctaaagaacaggaaatagatgagggcacttggcccagaagaataatgccag 300
OY	301 gagagcaaatatgalybaaaaaataaacctttcccttgittttaatttcaggaaaaaatgt 360

Db	301	gagagcacaatacgaugaaaaaataacattcccttcccttcttcttaattccaggaataaatcg	360
Qy	361	atcgagaccataatcatatgataataaggaaaacagctccagaaaataagatgttcccaattcgg	420
Db	361	atggagaccataatcatatgataataaggaaaacagctccagaaaataagatgttcccaattcgg	420
Qy	421	taattaagtatattgttcccttgggaagaaagacccctccatgtagctctgtatggaataatgga	480
Db	421	taattaagtatattgttcccttgggaagaaagacccctccatgtagctctgtatggaataatgga	480
Qy	481	aaagctcaaaaagcctgtctgtatccagatcccaaaagtgatcttattttaaaaccagat	540
Db	481	aaagctcaaaaagcctgtctgtatccagatcccaaaagtgatcttattttaaaaccagat	540
Qy	541	ggcatcactctggggaagcaagcttcggaaaggtcatgttatgcaaaagacataacataac	600
Db	541	ggcatcactctggggaagcaagcttcggaaaggtcatgttatgcaaaagacataacataac	600
Qy	601	agcaaaatcaaaaatcccgcaaatatcgagaggaataatggaagctggaagattcataac	660
Db	601	agcaaaatcaaaaatcccgcaaatatcgagaggaataatggaagctggaagattcataac	660
Qy	661	agtatataaggagttgagccattgttcgcaaacctcccgctctataccggggaacacaaa	720
Db	661	agtatataaggagttgagccattgttcgcaaacctcccgctctataccggggaacacaaa	720
Qy	721	attgacctgggcttaagcccttgagacttccaaaggaaataatgaaaaacctgaaagacaaa	780
Db	721	attgacctgggcttaagcccttgagacttccaaaggaaataatgaaaaacctgaaagacaaa	780
Qy	781	gacatctgttaaaaagcacaaccagacaactgtgagcccttcaaaagcagatgccccctaca	840
Db	781	gacatctgttaaaaagcacaaccagacaactgtgagcccttcaaaagcagatgccccctaca	840
Qy	841	gggagcccttgaggaatttggcctttaaggaaagccagtttcttaaggaaattctaagaaattc	900
Db	841	gggagcccttgaggaatttggcctttaaggaaagccagtttcttaaggaaattctaagaaattc	900
Qy	901	ctgaaaagatcatctgaaattcttaaccattcttaagataaaaacaaatagcgatgcatatcag	960
Db	901	ctgaaaagatcatctgaaattcttaaccattcttaagatataaaaacaaatagcgatgcatatcag	960
Qy	961	cttgagacatggtcccaattttataaaagtcacatacagaataaagctgctccagctcc	1020
Db	961	cttgagacatggtcccaattttataaaagtcacatacagaataaagctgctccagctcc	1020
Qy	1021	ggataggtctcagaatactattgaaataacacgtgcccccatccctaaatttttcgaatgct	1080
Db	1021	ggataggtctcagaatactattgaaataacacgtgcccccatccctaaatttttcgaatgct	1080
Qy	1081	tgtcatatgccccctcacacacagcgccgagtgctctgagcttacaacacacatctacaaccca	1140
Db	1081	tgtcatatgccccctcacacacagcgccgagtgctctgagcttacaacacacatctacaaccca	1140
Qy	1141	gtgctccaacacatgtttaaacgtgtcatctcctagtagttcccatatacaaatgcccattccc	1200
Db	1141	gtgctccaacacatgtttaaacgtgtcatctcctagtagttcccatatacaaatgcccattccc	1200
Qy	1201	tgtgcagccccatcccgctccacacaggaagtctcccaactctagaactctgtgacacaaagt	1260
Db	1201	tgtgcagccccatcccgctccacacaggaagtctcccaactctagaactctgtgacacaaagt	1260
Qy	1261	tacagccgaagaagctccgttgagggctgaggggtctgtgtcttaacccctaacctgtatgtctac	1320
Db	1261	tacagccgaagaagctccgttgagggctgaggggtctgtgtcttaacccctaacctgtatgtctac	1320
Qy	1321	acctggaactcaatgcaaacctctgctccccaaggtctcaagaacattctcgtctcagctcc	1380
Db	1321	acctggaactcaatgcaaacctctgctccccaaggtctcaagaacattctcgtctcagctcc	1380
Qy	1381	cggctagctgggataaaggcgaagcccggtcaatttttgtatgttatgtaggaatgg	1440

Dh 1381 cgcglagctggactacagcgcacgcccggctaaatttttgatgttagtagatg 1440  
Qy 1441 gttccacacatttagccgggtgtgtcttgaaactctctgaccctcaggttgatccaccactc 1500  
Dh 1441 gttccacacatttagccgggtgtgtcttgaaactctctgaccctcaggttgatccaccactc 1500  
Qy 1501 agccctccaaagtctgttgagatlaacagcagcatagttacacgcccgcgcgcgaagggctagct 1560  
Dh 1501 agccctccaaagtctgttgagatlaacagcagcatagttacacgcccgcgcgcgaagggctagct 1560  
Qy 1561 ttaataaggaataactctgaatggtttactaaaccaacagggaaacagacaaagtctgta 1620  
Dh 1561 ttaataaggaataactctgaatggtttactaaaccaacagggaaacagacaaagtctgta 1620  
Qy 1621 taatttcaggagatctcttgaggcttgaggaaatggttgccatagagctgcctgctagtccagac 1680  
Dh 1621 taatttcaggagatctcttgaggcttgaggaaatggttgccatagagctgcctgctagtccagac 1680  
Qy 1681 cactggtccatcacacttctctccctcacctccatcttcagagctagttacatttat 1740  
Dh 1681 cactggtccatcacacttctctccctcacctccatcttcagagctagttacatttat 1740  
Qy 1741 caccatgcttttggttgtaagctccacactgcttactgaataagaatataataactag 1800  
Dh 1741 caccatgcttttggttgtaagctccacactgcttactgaataagaatataataactag 1800  
Qy 1801 ttccatttgaggggccactgctgtgtgtgtataggaggagagccatccacagagctcct 1860  
Dh 1801 ttccatttgaggggccactgctgtgtgtgtataggaggagagccatccacagagctcct 1860  
Qy 1861 tgaagagcccccggcagagagttctctctccagctggggggagccctgcaagcacccgggtcc 1920  
Dh 1861 tgaagagcccccggcagagagttctctctccagctggggggagccctgcaagcacccgggtcc 1920  
Qy 1921 tgggtgtctctgagcaacctgcccagccgtgcacactggtgtgttttgatctactctag 1980  
Dh 1921 tgggtgtctctgagcaacctgcccagccgtgcacactggtgtgttttgatctactctag 1980  
Qy 1981 gaccgtgtctctcatctctctgtgtgactgcttcatctcacagagcatcttgaacatt 2040  
Dh 1981 gaccgtgtctctcatctctctgtgtgactgcttcatctcacagagcatcttgaacatt 2040  
Qy 2041 tattgagtaactatactctgcccagacacacagagacaaatggtgagcaaaagcagtcatg 2100  
Dh 2041 tattgagtaactatactctgcccagacacacagagacaaatggtgagcaaaagcagtcatg 2100  
Qy 2101 cctacactctgtggaggtgacagttctctcatggaagagctgcagagaataataagcca 2160  
Dh 2101 cctacactctgtggaggtgacagttctctcatggaagagctgcagagaataataataagcca 2160  
Qy 2161 gccaacttaaaccccggtgtctgaagaaagaaataaacacacatcttgaagattgtgcgc 2220  
Dh 2161 gccaacttaaaccccggtgtctgaagaaagaaataaacacacatcttgaagattgtgcgc 2220  
Qy 2221 agcatctcccttaacaaagggccactctccctagcgccccctgctgctccatctgccccgggg 2280  
Dh 2221 agcatctcccttaacaaagggccactctccctagcgccccctgctgctccatctgccccgggg 2280  
Qy 2281 cccccaagccccgagttcttccaaagctctctctccatcagtaacagcgtcagctgacct 2340  
Dh 2281 cccccaagccccgagttcttccaaagctctctctccatcagtaacagcgtcagctgacct 2340  
Qy 2341 ggcctgcctcccgtagaactcgtctgtgcatctgagctggagagctcttgctccagacct 2400  
Dh 2341 ggcctgcctcccgtagaactcgtctgtgcatctgagctggagagctcttgctccagacct 2400  
Qy 2401 ccagaaagaaatggagggagaaactagttctaaacgagaaactctggaggggacagtcttc 2460  
Dh 2401 ccagaaagaaatggagggagaaactagttctaaacgagaaactctggaggggacagtcttc 2460  
Qy 2461 ctccagagggaaagggcctccacagctccagaggaattccagagagtgaggactgcaaggag 2520  
Dh 2461 ctccagagggaaagggcctccacagctccagaggaattccagagagtgaggactgcaaggag 2520

Qy 2521 tgggagacgctggagctgagcgggtgctgaaagcgaggaagtgaaagaggcaagctgaa 2580  
Dh 2521 tgggagacgctggagctgagcgggtgctgaaagcgaggaagtgaaagaggcaagctgaa 2580  
Qy 2581 gctgccagatgctcagtgctgtctacggggcttgaggacttccgtgtctctctgagc 2640  
Dh 2581 gctgccagatgctcagtgctgtctacggggcttgaggacttccgtgtctctctgagc 2640  
Qy 2641 ctttttcttctctcgtctggaggaggaagctcattctcagaaaggagttgacgttc 2700  
Dh 2641 ctttttcttctctcgtctggaggaggaagctcattctcagaaaggagttgacgttc 2700  
Qy 2701 ataaagtcagctgttaaataatccagggctgtaaggttttccctccagaaagccttat 2760  
Dh 2701 ataaagtcagctgttaaataatccagggctgtaaggttttccctccagaaagccttat 2760  
Qy 2761 ttaatgggaatataggagcagactcatcttccctagagccgttaattccaggaagaagtac 2820  
Dh 2761 ttaatgggaatataggagcagactcatcttccctagagccgttaattccaggaagaagtac 2820  
Qy 2821 tggagctttctctctcgtctgtctctggcacaactcagcccttggttggaactgacct 2880  
Dh 2821 tggagctttctctctcgtctgtctctggcacaactcagcccttggttggaactgacct 2880  
Qy 2881 tgcagaacgctgcgaaaaccttggaatcaggaagactcggttctctctctggttccgcat 2940  
Dh 2881 tgcagaacgctgcgaaaaccttggaatcaggaagactcggttctctctctggttccgcat 2940  
Qy 2941 ggttggtctgtgagacgctgggcaaggtgtctctctctccctgggcccatagtctctgct 3000  
Dh 2941 ggttggtctgtgagacgctgggcaaggtgtctctctctccctgggcccatagtctctgct 3000  
Qy 3001 ataaagaccccttgagctctcgtgttctgtgaacactctcccttgatctctctgtgagg 3060  
Dh 3001 ataaagaccccttgagctctcgtgttctgtgaacactctcccttgatctctctgtgagg 3060  
Qy 3061 ggaatctgaagggggaagggagggcagagcttgagagccttgagccacagggggagtgaagg 3120  
Dh 3061 ggaatctgaagggggaagggagggcagagcttgagagccttgagccacagggggagtgaagg 3120  
Qy 3121 ggaacagaaaggcagagcagagctgtgtctccatcagctccctactgatacagctcagactc 3180  
Dh 3121 ggaacagaaaggcagagcagagctgtgtctccatcagctccctactgatacagctcagactc 3180  
Qy 3181 caggacccgagggccacatgcttccaggaaagctcaatgaaaccccaacagccacatttcc 3240  
Dh 3181 caggacccgagggccacatgcttccaggaaagctcaatgaaaccccaacagccacatttcc 3240  
Qy 3241 tccctaaagcatagaacatgagcatctgccaatlaaacaaagaaatgacagaaactagct 3300  
Dh 3241 tccctaaagcatagaacatgagcatctgccaatlaaacaaagaaatgacagaaactagct 3300  
Qy 3301 ggtagctttgctgtgcatctcaaaaactgggccaagctggaataatgccaagattg 3360  
Dh 3301 ggtagctttgctgtgcatctcaaaaactgggccaagctggaataatgccaagattg 3360  
Qy 3361 ttaaatctttacccctgacccgaccccccagcagctcagagctgaactgacagacag 3420  
Dh 3361 ttaaatctttacccctgacccgaccccccagcagctcagagctgaactgacagacag 3420  
Qy 3421 agtgaacctgcagcgaaggaggaagaaagaaagaaagaaatagttgataagcaagaag 3480  
Dh 3421 agtgaacctgcagcgaaggaggaagaaagaaagaaagaaatagttgataagcaagaag 3480  
Qy 3481 acagattcatctcaaggcagtggaattgaccacagagatataagttccacgtgactctgg 3540  
Dh 3481 acagattcatctcaaggcagtggaattgaccacagagatataagttccacgtgactctgg 3540  
Qy 3541 gttctaaaggagcaggtctatatgttggtggggaaataatcagttcaagggaagtctggaga 3600  
Dh 3541 gttctaaaggagcaggtctatatgttggtggggaaataatcagttcaagggaagtctggaga 3600

OY 3601 ccctgattcctaatactatattcttccttacaagctgagtaattctcgagaagctacaag 3660  
|||||  
DB 3601 cctgattcttaatactatattcttccttacaagctgagtaattctcgagaagctacaag 3660  
OY 3661 gtagtaactgaggctgtaagatctacttaagttcttccttaataagaaactctttctctg 3720  
|||||  
DB 3661 gtagtaactgaggctgtaagatctacttaagttcttccttaataagaaactctttctctg 3720  
OY 3721 ggaagtacgacgacaagagcaatcccgcttctcttacaaggagaacaactctcctaag 3780  
|||||  
DB 3721 ggaagtacgacgacaagagcaatcccgcttctcttacaaggagaacaactctcctaag 3780  
OY 3781 taagaaccaagagattcgaagccttaggtctgtcgactataatgattgttttgaanaat 3840  
|||||  
DB 3781 taagaaccaagagattcgaagccttaggtctgtcgactataatgattgttttgaanaat 3840  
OY 3841 catctcagagatgttactatctgtaattcagaaaatgagactaagcctttgttcagctg 3900  
|||||  
DB 3841 catctcagagatgttactatctgtaattcagaaaatgagactaagcctttgttcagctg 3900  
OY 3901 taacaacaacacccagctgtgtaaatgctcgaagctcgaagcttaactcgacaacacataaa- 3959  
|||||  
DB 3901 taacaacaacacccagctgtgtaaatgctcgaagctcgaagcttaactcgacaacacataaa 3960  
OY 3960 aagaataagatactcttagagcaaacctgttctccacatccgagtgagctgcagag 4019  
|||||  
DB 3961 aagaataagatactcttagagcaaacctgttctccacatccgagtgagctgcagag 4019  
OY 4020 cagtttggaataattactctacaaglatgacacgtgtgttggatlttaacaacataaag 4079  
|||||  
DB 4020 cagtttggaataattactctacaaglatgacacgtgtgttggatlttaacaacataaag 4079  
OY 4080 tgcgtccaagagcaatactatctcgaagtgcctaaagttaactctcgaagctttgtgata 4139  
|||||  
DB 4080 tgcgtccaagagcaatactatctcgaagtgcctaaagttaactctcgaagctttgtgata 4139  
OY 4140 tttaattggtcattggtcattgtcttcttctccttgggttttaataatgtaagca 4199  
|||||  
DB 4140 tttaattggtcattggtcattgtcttcttctccttgggttttaataatgtaagca 4199  
OY 4200 gggattattaaacctacagctcagagaagcctgtgaattgaaatgaggaanaatactatt 4259  
|||||  
DB 4200 gggattattaaacctacagctcagagaagcctgtgaattgaaatgaggaanaatactatt 4259  
OY 4260 tgcgttttccacctcttaactaaatttaacattatcccatctgcgaatagagccataa 4319  
|||||  
DB 4260 tgcgttttccacctcttaactaaatttaacattatcccatctgcgaatagagccataa 4319  
OY 4320 actcaaaagtgtataacagctacgttgattgtgtcatctacaaatagaatcacagat 4379  
|||||  
DB 4320 actcaaaagtgtataacagctacgttgattgtgtcatctacaaatagaatcacagat 4379  
OY 4380 ttataactatatacagctgtgtgcagatacgtgtgaatgaatattatatacacaact 4439  
|||||  
DB 4380 ttataactatatacagctgtgtgcagatacgtgtgaatgaatattatatacacaact 4439  
OY 4440 actttgaaatataaactcctgcgtgcgatactgttttaacataataaactgttttaa 4499  
|||||  
DB 4440 actttgaaatataaactcctgcgtgcgatactgttttaacataataaactgttttaa 4499  
OY 4500 aattttgataatttggataatcatattcatattgattgttccttctgtatcatattt 4559  
|||||  
DB 4500 aattttgataatttggataatcatattcatattgattgttccttctgtatcatattt 4559  
OY 4560 tatataattgaaaaacactcttcgagagaaggtccccaagattccaacaatgaggtcttg 4619  
|||||  
DB 4560 tatataattgaaaaacactcttcgagagaaggtccccaagattccaacaatgaggtcttg 4619  
OY 4620 gcatgacacacacagagtaagaactgatttaagagcttaacatgtgagctgcgag 4679  
|||||  
DB 4620 gcatgacacacacagagtaagaactgatttaagagcttaacatgtgagctgcgag 4679  
OY 4680 atgcagaactgtaaatgagaaggtctccccaagaatatacagctgtgttttaagcaggg 4739

DB 4680 atgcagaactgtaaatgagaaggtctccccaagaatatacagctgtgttttaagcaggg 4739  
|||||  
OY 4740 gaggggggaataactgcgcgtctctatagaatgtctctccctgagcctgtgtaaggtctg 4799  
|||||  
DB 4740 gaggggggaataactgcgcgtctctatagaatgtctctccctgagcctgtgtaaggtctg 4799  
OY 4800 ccttggtcttgctggcgtgatttttctgtctcctgtcctagcgtcttaagacttgt 4859  
|||||  
DB 4800 ccttggtcttgctggcgtgatttttctgtctcctgtcctagcgtcttaagacttgt 4859  
OY 4860 tggatcccaagctcccaagcatagtgctgcagagtgcaagtgctcccaatgagcttgca 4919  
|||||  
DB 4860 tggatcccaagctcccaagcatagtgctgcagagtgcaagtgctcccaatgagcttgca 4919  
OY 4920 gtgaatggaataataaactagaaatataatccttgttgaataacagcaacagtagtctg 4979  
|||||  
DB 4920 gtgaatggaataataaactagaaatataatccttgttgaataacagcaacagtagtctg 4979  
OY 4980 gtgtgaagtgtgtgaagctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5039  
|||||  
DB 4980 gtgtgaagtgtgtgaagctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5039  
OY 5040 atagagacattatattggtgtacaggtgcataaattgggaatgttcttcttaaaaagaana 5099  
|||||  
DB 5040 atagagacattatattggtgtacaggtgcataaattgggaatgttcttcttaaaaagaana 5099  
OY 5100 ccaaacagactctctggaaggttaattctcgaatactctgtcgtgcaagctgaaagcaacc 5159  
|||||  
DB 5100 ccaaacagactctctggaaggttaattctcgaatactctgtcgtgcaagctgaaagcaacc 5159  
OY 5160 ccctgtgcacagccccaacagctcagctgtgcacactgtctctccccaagaaaggtct 5219  
|||||  
DB 5160 ccctgtgcacagccccaacagctcagctgtgcacactgtctctccccaagaaaggtct 5219  
OY 5220 ggtccccaagtatataaaacctctctgagagctcgagcaatgagcagag 5271  
|||||  
DB 5220 ggtccccaagtatataaaacctctctgagagctcgagcaatgagcagag 5271

RESULT 6  
V51366  
ID V51366 standard; DNA; 5300 BP.  
XX  
AC V51366;  
XX  
DT 27-OCT-1998 (first entry)  
XX  
DE Human TIGR promoter mutant TIGRm5 DNA.  
XX  
KW TIGR; trabecular meshwork induced glucocorticoid response protein; human;  
KW diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.  
OS Homo sapiens.  
XX  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT mutation 4262  
FT /tag= a  
FT /note= "Wild-type G is replaced with A"  
XX  
PD MO9832850-A1.  
XX  
PD 30-JUL-1998.  
XX  
PE 09-JAN-1998; 98WO-US00468.  
XX  
PR 26-SEP-1997; 97US-0938669.  
XX  
PR 28-JAN-1997; 97US-0791154.  
XX  
PA (REGC ) UNIV CALIFORNIA.  
XX  
PI Chen H, Chen P, Nguyen TD, Polansky JR;





Oy 1861 tgaagccccgcaaggtttctctccaagctcggggagcccttgcaagaccgggttc 1920  
 Db 1861 tgaagccccgcaaggtttctctccaagctcggggagcccttgcaagaccgggttc 1920  
 Oy 1921 tgggtgtctctagcaaacctgcagcccgctgcacacgtgtgtttcttatcactcttaag 1980  
 Db 1921 tgggtgtctctagcaaacctgcagcccgctgcacacgtgtgtttcttatcactcttaag 1980  
 Oy 1981 gacctgtgtcttctatctctgtgtgactglttcatctccagagcatctatgtacaatt 2040  
 Db 1981 gacctgtgtcttctatctctgtgtgactglttcatctccagagcatctatgtacaatt 2040  
 Oy 2041 tatgtagtaactatattctgcagcaacacagaaataatggtgagcaagcgtaactgc 2100  
 Db 2041 tatgtagtaactatattctgcagcaacacagaaataatggtgagcaagcgtaactgc 2100  
 Oy 2101 cctaaccttcgtgaggtgcaagattctctcatgtgaaagacgtgcagaaagaaattatagcca 2160  
 Db 2101 cctaaccttcgtgaggtgcaagattctctcatgtgaaagacgtgcagaaagaaattatagcca 2160  
 Oy 2161 gccaaacttaaacccagctgcagaaagaaagaaataaacacacactctgaaagaaatgtgcgc 2220  
 Db 2161 gccaaacttaaacccagctgcagaaagaaagaaataaacacacactctgaaagaaatgtgcgc 2220  
 Oy 2221 agcaactcttaaacagagccactctcttagcgccctctgtctgtctctcatcgttgcggagag 2280  
 Db 2221 agcaactcttaaacagagccactctcttagcgccctctgtctgtctctcatcgttgcggagag 2280  
 Oy 2281 ccccaagaccagagctctccaagctccctccatcaatcagtcacagcgctgcagcgct 2340  
 Db 2281 ccccaagaccagagctctccaagctccctccatcaatcagtcacagcgctgcagcgct 2340  
 Oy 2341 gacctgtctccgtgtaatctgtctcgatctctgagctvgagaaactccttgctccaagct 2400  
 Db 2341 gacctgtctccgtgtaatctgtctcgatctctgagctvgagaaactccttgctccaagct 2400  
 Oy 2401 ccagaaagaaatgtgagagggagaaataagtctaaagagaaatctgagagggagaaagtcttc 2460  
 Db 2401 ccagaaagaaatgtgagagggagaaataagtctaaagagaaatctgagagggagaaagtcttc 2460  
 Oy 2461 ctcaagagggaaaggggctccacagctccaagagaaatcccaagaggtvgagagctgcagagag 2520  
 Db 2461 ctcaagagggaaaggggctccacagctccaagagaaatcccaagaggtvgagagctgcagagag 2520  
 Oy 2521 tgggagacgtctgggctgagcggtgtctgaaagcgagaaagtcgaaagggcagagctgaa 2580  
 Db 2521 tgggagacgtctgggctgagcggtgtctgaaagcgagaaagtcgaaagggcagagctgaa 2580  
 Oy 2581 gctgcagcagatgtctcaaggtgtctcaaggggtctggaggtttccggtgtgtctctgtagagc 2640  
 Db 2581 gctgcagcagatgtctcaaggtgtctcaaggggtctggaggtttccggtgtgtctctgtagagc 2640  
 Oy 2641 cttcttatcttctctctgctgagagaaagaaatctatctcatgaaagagtcagcttc 2700  
 Db 2641 cttcttatcttctctctgctgagagaaagaaatctatctcatgaaagagtcagcttc 2700  
 Oy 2701 ataaagtcagcgtctaaataatcccaaggtgtgcaatgggtttccctccaagagcccttat 2760  
 Db 2701 ataaagtcagcgtctaaataatcccaaggtgtgcaatgggtttccctccaagagcccttat 2760  
 Oy 2761 ttaatgggaataatagaaagcgagctcatattctctagggcgttaattcaacgaaagatgagc 2820  
 Db 2761 ttaatgggaataatagaaagcgagctcatattctctagggcgttaattcaacgaaagatgagc 2820  
 Oy 2821 tggagctcttctctcatgtctctgggcaactactcaagcctctggttgacttgctta 2880  
 Db 2821 tggagctcttctctcatgtctctgggcaactactcaagcctctggttgacttgctta 2880  
 Oy 2881 tgcagagacggtctgaaataaccttggaaatcagagagactcgtttctctctgtctgcgcaat 2940  
 Db 2881 tgcagagacggtctgaaataaccttggaaatcagagagactcgtttctctctgtctgcgcaat 2940

Oy 2941 ggttgctgtctgcagccgtgaggcaagtgtctctctctctctggggccatagctctctgct 3000  
 Db 2941 ggttgctgtctgcagccgtgaggcaagtgtctctctctctctggggccatagctctctgct 3000  
 Oy 3001 ataaagaccctctgcagcctctgctgtctgttgaacacactctccctgttatctctgttgaagg 3060  
 Db 3001 ataaagaccctctgcagcctctgctgtctgttgaacacactctccctgttatctctgttgaagg 3060  
 Oy 3061 ggaatctgaaagggagagagcagagctgagacagctgagccacagggaggtvgaggg 3120  
 Db 3061 ggaatctgaaagggagagagcagagctgagacagctgagccacagggaggtvgaggg 3120  
 Oy 3121 ggaacagagagggagagagcagagctgagacagctgagccacagggaggtvgaggg 3180  
 Db 3121 ggaacagagagggagagagcagagctgagacagctgagccacagggaggtvgaggg 3180  
 Oy 3181 caagaccagagggcacaatctgctccaagaaagctcaattgaacccaacagccacatttccct 3240  
 Db 3181 caagaccagagggcacaatctgctccaagaaagctcaattgaacccaacagccacatttccct 3240  
 Oy 3241 tccctaaagcatagacaatggtgcatcttgccaataacccaagaaatgcaagaaactaaatgtgc 3300  
 Db 3241 tccctaaagcatagacaatggtgcatcttgccaataacccaagaaatgcaagaaactaaatgtgc 3300  
 Oy 3301 ggtagcttctgctgcatctcaaaaactgggccaagagctgagaaatgtgccaagatgtg 3360  
 Db 3301 ggtagcttctgctgcatctcaaaaactgggccaagagctgagaaatgtgccaagatgtg 3360  
 Oy 3361 ttaaacttctcaaccccttgaccagcaaccacagagctccagctgagctgtgacagcagcg 3420  
 Db 3361 ttaaacttctcaaccccttgaccagcaaccacagagctccagctgagctgtgacagcagcg 3420  
 Oy 3421 agtgacctgcagcgagagggagagaaagaaagagagagatgtgtatgacaaagaaag 3480  
 Db 3421 agtgacctgcagcgagagggagagaaagaaagagagagatgtgtatgagcaagaaag 3480  
 Oy 3481 acaagttcatctcaagggagctgagatctgacacagggatataatgacagctgacccctg 3540  
 Db 3481 acaagttcatctcaagggagctgagatctgacacagggatataatgacagctgacccctg 3540  
 Oy 3541 gttcagaagagcagggctataatgttgggggagaaataacagttcaagggaggtcggagga 3600  
 Db 3541 gttcagaagagcagggctataatgttgggggagaaataacagttcaagggaggtcggagga 3600  
 Oy 3601 cctgtttcttaataactatattttctcttcaagctgtgtaattcttgagcaagttacaag 3660  
 Db 3601 cctgtttcttaataactatattttctcttcaagctgtgtaattcttgagcaagttacaag 3660  
 Oy 3661 gtagtaactgaaagctgttaagattacttagtttcccttatagaaagaaacatctctaagag 3720  
 Db 3661 gtagtaactgaaagctgttaagattacttagtttcccttatagaaagaaacatctctaagag 3720  
 Oy 3721 ggaagttaagcagacaaagggcaatcccggtttcctttaacaggaagaaacatctctaagag 3780  
 Db 3721 ggaagttaagcagacaaagggcaatcccggtttcctttaacaggaagaaacatctctaagag 3780  
 Oy 3781 taaagccaaacagatctcaagcttaggtcttctgtgctataatgagtgttttttgaanaat 3840  
 Db 3781 taaagccaaacagatctcaagcttaggtcttctgtgctataatgagtgttttttgaanaat 3840  
 Oy 3841 catctcagcgaatgttataatcttgatcagaaataagaaactagtaaccccttggtcagctg 3900  
 Db 3841 catctcagcgaatgttataatcttgatcagaaataagaaactagtaaccccttggtcagctg 3900  
 Oy 3901 taaacaaacacccagcttgaatgtctcaagttcagaggttcaactgcaagaaacaaatcaaa - 3959  
 Db 3901 taaacaaacacccagcttgaatgtctcaagttcagaggttcaactgcaagaaacaaatcaaa - 3959  
 Oy 3960 aagaaataaactcttaagcacaacctgttctccaactcggagaggtgagctgcagag 4019  
 Db 3961 aagaaataaactcttaagcacaacctgttctccaactcggagaggtgagctgcagag 4019  
 Oy 4020 cagtttggaataattactctcaagatactgacaaatgtgtgtgtgatttaacaaataaag 4079

Dh	4020	caaglttggaaatacttaactccacaagaatctgacacgttctgtgtaactaaacaataag	4079
Oy	4080	ttgtctcaaaagacaatacttaattccaagtgtgtctaaagttaactctgcagacttttgtata	4139
Dh	4080	ctgcctcaaaagacaatacttaattccaagtgtgtctaaagttaactctgcagacttttgtata	4139
Oy	4140	tttatcgcatatgcattctgtcttttgtttctctctctgtggttatbtaatgtaagca	4199
Dh	4140	tttatgtcctatitgcattctgtcttttgtttctctctctgtggttatbtaatgtaagca	4199
Oy	4200	gggtttttaaccatacagttccagaagccgtgaattgaatggaggaaaaatttaacttt	4259
Dh	4200	gggtttttaaccatacagttccagaagccgtgaattgaatggaggaaaaatttaacttt	4259
Oy	4260	ttgttttttaacaccccttccaataaatttaacatttatccactctgcgaataagacctata	4319
Dh	4260	ttatttttaacaccccttccaataaatttaacatttatccactctgcgaataagacctata	4319
Oy	4320	acccaaaagtgtgtaataaacaagtaaccgtgtaattgtcataccaataagaaatacagacat	4379
Dh	4320	acccaaaagtgtgtaataaacaagtaaccgtgtaattgtcataccaataagaaatacagacat	4379
Oy	4380	tttatcacataatttaacatttttgcagaataagttgtatagtgaaattttataactcaaac	4439
Dh	4380	tttatcacataatttaacatttttgcagaataagttgtatagtgaaattttataactcaaac	4439
Oy	4440	accttgaataattagaacccctccgcgcgtgcgaactctgttttaacaatactaaataaacattttaa	4499
Dh	4440	accttgaataattagaacccctccgcgcgtgcgaactctgttttaacaatactaaataaacattttaa	4499
Oy	4500	aatcttgataatttttgataatacataattcatactatcatattgtttcccttgyatactataatt	4559
Dh	4500	aatcttgataatttttgataatacataattcatactatcatattgtttcccttgyatactataatt	4559
Oy	4560	tatatatttggaaaaacattcttcggagaagagttccccaatttgcacaaatggagttcttg	4619
Dh	4560	tatatatttggaaaaacattcttcggagaagagttccccaatttgcacaaatggagttcttg	4619
Oy	4620	gcatctgcacacacacaagtgtaagaacatactattttaaaggctacaacttgacattgtctctag	4679
Dh	4620	gcatctgcacacacacaagtgtaagaacatactattttaaaggctacaacttgacattgtctctag	4679
Oy	4680	atgcagaagactgaaatttgaagaaagtctctcccaagaatacacagttgttttaagaactagggt	4739
Dh	4680	atgcagaagactgaaatttgaagaaagtctctcccaagaatacacagttgttttaagaactagggt	4739
Oy	4740	gaagggggggaaatactgcgcgcttctcataggaattgtctcccttggaagccctgttaagggtcgt	4799
Dh	4740	gaagggggggaaatactgcgcgcttctcataggaattgtctcccttggaagccctgtgttaagggtcgt	4799
Oy	4800	ccctgtctctcgcgtgcctgttaattttctctgtccctctgcagcttcctcaagaagacttgt	4859
Dh	4800	ccctgtgtctcgcgtgcctgttaattttctctgtccctctgcagcttcctcaagaagacttgt	4859
Oy	4860	tgcatactccagttctctagcaatagtcctgcgcagacagtgcagttctccaabtgagtttcgaga	4919
Dh	4860	tgcatactccagttctctagcaatagtcctgcgcagacagtgcagttctccaabtgagtttcgaga	4919
Oy	4920	gtgtaattggaataataaatactgaaataatactccctgttgaaatacagaacacacagtagtctgt	4979
Dh	4920	gtgtaattggaataataaatactgaaataatactccctgttgaaatacagaacacacagtagtctgt	4979
Oy	4980	gttgaatagttggtgtaacgt	5039
Dh	4980	gttgaatagttggtgtaacgt	5039
Oy	5040	ataaggaaactatactctgggtgatactgtgcataaatttggaatgtctcttttaaaaaaagaact	5099
Dh	5040	ataaggaaactatactctgggtgatactgtgcataaatttggaatgtctcttttaaaaaaagaact	5099
Oy	5100	ccaaacagactctcggaaagttaatttctaaagaattctgtgcagcgttgaaaggcaacc	5159

Dd	5100	cgaacagactctcgtgaaggattatcttcagaacctgctgcagcgcygaaggcaacc	5159
Oy	5160	ccctgtgcacagccccaccccagcctcacgtggccaacctctgtcttccccaatgaaggct	5219
Dd	5160	ccctgtgcacagccccaccccagcctcacgtggccaacctctgtcttccccaatgaaggct	5219
Oy	5220	ggtctcccaagtataataaacctctctgtagtggtggcatgagccagcaag	5271
Dd	5220	ggtctcccaagtataataaacctctctgtagtggtggcatgagccagcaag	5271
<hr/>			
RESULT 7			
ID	V51367	standard; DNA: 5300 BP.	
XX	V51367		
AC	V51367;		
XX			
DT	27-OCT-1998	(first entry)	
XX			
DE	Human TIGR promoter variant TIGRsv1 DNA.		
XX			
KW	TIGR: trabecular meshwork induced glucocorticoid response protein; human;		
KW	diagnosis: glaucoma; polymorphism; steroid sensitivity; mutant; ss.		
OS	Homo sapiens.		
OS	Synthetic.		
FH	Key	Location/Qualifiers	
FT	mutation	4406	
FT	/tag=	a	
FX	/note= "Wild-type A is replaced by G"		
PN	WO9832850-A1.		
XX			
PD	30-JUL-1998.		
XX			
PF	09-JAN-1998; 98WO-US00468.		
XX			
PR	26-SEP-1997; 97US-0938669.		
PR	28-JAN-1997; 97US-0791154.		
XX			
PA	(REGC ) UNIV CALIFORNIA.		
PI	Chen H, Chen P, Nguyen TD, Polansky JR;		
XX			
DR	WPI: 1998-427946/36.		
XX			
PT	Use of TIGR nucleic acid sequences - used for, e.g. developing		
PT	products for diagnosis, prognosis and treatment of glaucoma		
XX			
PS	Disclosure: Fig 2: 105pp; English.		
XX			
CC	This sequence is a trabecular meshwork induced glucocorticoid response		
CC	protein (TIGR) promoter variant, TIGRsv1, which is used in a method for		
CC	diagnosing glaucoma in a patient. The method involves the detection of		
CC	polymorphisms whose presence is predictive of a mutation affecting TIGR		
CC	response in the patient and can be diagnostic of glaucoma or steroid		
CC	sensitivity. Base substitutions and base additions upstream of and within		
CC	TIGR exons can also be used to diagnose glaucoma.		
XX			
SO	Sequence 5300 BP: 1481 A; 1152 C; 1236 G; 1431 T; 0 other:		
<hr/>			
Query Match 99.5%; Score 5244.8; DB 19; Length 5300;			
Best Local Similarity 99.9%; Pred. No. 0;			
Matches 5268; Conservative 0; Mismatches 2; Indels 2; Gaps 2.			
Oy	1	atcttgttcacattactaccctcagcggtatatgatgaatgagataaaccaatgtgaag	60
Dd	1	atcttgttcacattactaccctcagcggtatatgatgaatgagataaaccaatgtgaag	60
Oy	61	tccataaactgtatagccctccatcggatgtaatgtctttgtgcagatgataagaatca	120

Dh 61 tccataaactgtatagccctccatctcgatgtatgtctttgagcagatgataaagatca 120  
Oy 121 ggaagaaagagatctcacgttagccaaagttagccagctgtgtctgtcttatatttgta 180  
Dh 121 ggaagaaagagatctcacgttagccaaagttagccagctgtgtctgtcttatatttgta 180  
Oy 181 cgaagatctctctcgacaaagatctctctcgagaaacatcacatccaatagtataac 240  
Dh 181 cgaagatctctctcgacaaagatctctctcgagaaacatcacatccaatagtataac 240  
Oy 241 catcaaacagagcttaagaaacaggaatgagatgagcacttgcgcaagaaaaatgcag 300  
Dh 241 catcaaacagagcttaagaaacaggaatgagatgagcacttgcgcaagaaaaatgcag 300  
Oy 301 ggaagcaaaataatgtatgaaaaataaactttcccttgttttaatttcagagaaaaatg 360  
Dh 301 ggaagcaaaataatgtatgaaaaataaactttcccttgttttaatttcagagaaaaatg 360  
Oy 361 atgagagaccaaatacatgataaagaaaaacagctcagaaaaaagatgtttccaaatcg 420  
Dh 361 atgagagaccaaatacatgataaagaaaaacagctcagaaaaaagatgtttccaaatcg 420  
Oy 421 taataagatattgttctcttggaaagacactcatalgtagcttgaatgggaaaaatggaa 480  
Dh 421 taataagatattgttctcttggaaagacactcatalgtagcttgaatgggaaaaatggaa 480  
Oy 481 aaacgtcaaaaacatgatctgtatcagaatcccaagtgatattatattcaaaaacagat 540  
Dh 481 aaacgtcaaaaacatgatctgtatcagaatcccaagtgatattatattcaaaaacagat 540  
Oy 541 ggcatacactctggagagcaggttcagagagtcagatcagcaaaagacatacaataac 600  
Dh 541 ggcatacactctggagagcaggttcagagagtcagatcagcaaaagacatacaataac 600  
Oy 601 agcaaaaatacaaaatcccgcaaatgcagaggaataatgggagactgggaagcttcaaac 660  
Dh 601 agcaaaaatacaaaatcccgcaaatgcagaggaataatgggagactgggaagcttcaaac 660  
Oy 661 atgtattagcaggttgacatgttcgcaaacactcccgctctatacagggaacacaaaa 720  
Dh 661 atgtattagcaggttgacatgttcgcaaacactcccgctctatacagggaacacaaaa 720  
Oy 721 attgactggcctaagccttggaacttcaaggaataatgaaaaactgagagcaaacaaaa 780  
Dh 721 attgactggcctaagccttggaacttcaaggaataatgaaaaactgagagcaaacaaaa 780  
Oy 781 gacatgtgttaaaagagcaacacagaaatctgtgagccttcaaaagcagatgccccacaga 840  
Dh 781 gacatgtgttaaaagagcaacacagaaatctgtgagccttcaaaagcagatgccccacaga 840  
Oy 841 ggaagccctgaggaatttgcctttagaagagccagtttcttaagaaatccttaagaactc 900  
Dh 841 ggaagccctgaggaatttgcctttagaagagccagtttcttaagaaatccttaagaactc 900  
Oy 901 ttgaaagacatgaaattttaaaccatttaagataaaaaacaatatgcgatgcataatcag 960  
Dh 901 ttgaaagacatgaaattttaaaccatttaagataaaaaacaatatgcgatgcataatcag 960  
Oy 961 tttaagacatggtgtcccaattttaataagtcagacatacaaggaataacgtgtccagctcc 1020  
Dh 961 tttaagacatggtgtcccaattttaataagtcagacatacaaggaataacgtgtccagctcc 1020  
Oy 1021 ggaataggtcagaataatcatagaaaatcacatgtgtcccaatccctaacttttcaaaaatgac 1080  
Dh 1021 ggaataggtcagaataatcatagaaaatcacatgtgtcccaatccctaacttttcaaaaatgac 1080  
Oy 1081 tctcataagccctcacacacagagcccgatgtgtctgacctcaacacacatctaaacccaa 1140  
Dh 1081 tctcataagccctcacacacagagcccgatgtgtctgacctcaacacacatctaaacccaa 1140  
Oy 1141 gtgacctcaaacatgtttaacgtgtcatctcagtagtcccatataaattgcacctccccc 1200  
Dh 1141 gtgacctcaaacatgtttaacgtgtcatctcagtagtcccatataaattgcacctccccc 1200

Oy 1201 tgtcagagccatcccgctccacaggaagtctcccaactctagacttctgcatcacagatg 1260  
Dh 1201 tgtcagagccatcccgctccacaggaagtctcccaactctagacttctgcatcacagatg 1260  
Oy 1261 tacagccagaagctccgttagagtgagggctgtgtctctaacctcaactgtatgtctaac 1320  
Dh 1261 tacagccagaagctccgttagagtgagggctgtgtctctaacctcaactgtatgtctaac 1320  
Oy 1321 acctgagctcactgtcaactctgtctctccaggttcaagaaattctctgtctccagcttc 1380  
Dh 1321 acctgagctcactgtcaactctgtctctccaggttcaagaaattctctgtctccagcttc 1380  
Oy 1381 cgtgtagctgggaactcaagcgcacgcccggcttaattttgtcatgttagtagagaatgg 1440  
Dh 1381 cgtgtagctgggaactcaagcgcacgcccggcttaattttgtcatgttagtagagaatgg 1440  
Oy 1441 gttcaccaatatagcccgctgtgtcttgaactctctgaactcctaggttgaatccacccctc 1500  
Dh 1441 gttcaccaatatagcccgctgtgtcttgaactctctgaactcctaggttgaatccacccctc 1500  
Oy 1501 agcctctaaagtgtctgggaatcaaggaatgagtcacgcccggccagaggtcagtg 1560  
Dh 1501 agcctctaaagtgtctgggaatcaaggaatgagtcacgcccggccagaggtcagtg 1560  
Oy 1561 ttaataaggaataacttgaaatgtttactaaaaccaaggggaacagagcaaaagctgtga 1620  
Dh 1561 ttaataaggaataacttgaaatgtttactaaaaccaaggggaacagagcaaaagctgtga 1620  
Oy 1621 taattcaaggaattctctgggaatgggaaatggtgcataagcctgacctgaatcccaagc 1680  
Dh 1621 taattcaaggaattctctgggaatgggaaatggtgcataagcctgacctgaatcccaagc 1680  
Oy 1681 cactgtctctcaatcaattctctccctcaatcccaatttcaggctaaagttaacatttat 1740  
Dh 1681 cactgtctctcaatcaattctctccctcaatcccaatttcaggctaaagttaacatttat 1740  
Oy 1741 caacatgctttgtgttaagccctccacatcgttaactgaataaagatatataaactag 1800  
Dh 1741 caacatgctttgtgttaagccctccacatcgttaactgaataaagatatataaactag 1800  
Oy 1801 ttcacatttggggccatctgtgtgtgataagggaggggcataccccagaactcct 1860  
Dh 1801 ttcacatttggggccatctgtgtgtgataagggaggggcataccccagaactcct 1860  
Oy 1861 tgaagcccccggcagaagtttctctctccagcttggggagccctgcagacacccgggtcc 1920  
Dh 1861 tgaagcccccggcagaagtttctctctccagcttggggagccctgcagacacccgggtcc 1920  
Oy 1921 tgggtgtctctggacaaactctgcagccgctgcagctgtgtttgtttatcaactcttag 1980  
Dh 1921 tgggtgtctctggacaaactctgcagccgctgcagctgtgtttgtttatcaactcttag 1980  
Oy 1981 gacctgtgtctctctatcttctgtgtgactcgttcatatctcaagagcatcatgacaatt 2040  
Dh 1981 gacctgtgtctctctatcttctgtgtgactcgttcatatctcaagagcatcatgacaatt 2040  
Oy 2041 tatgtactctataatctgcagcaacacagagaacaaatggtgtgagcaaaagcagttcctc 2100  
Dh 2041 tatgtactctataatctgcagcaacacagagaacaaatggtgtgagcaaaagcagttcctc 2100  
Oy 2101 cctaactctgtgaggttgcaggttctcaatgaaagcgtgcagaaagaaataatatagca 2160  
Dh 2101 cctaactctgtgaggttgcaggttctcaatgaaagcgtgcagaaagaaataatatagca 2160  
Oy 2161 gccaaacttaaacccagtgtctgaaagaaagaaataaacacatctgtgaaagtgtgtgc 2220  
Dh 2161 gccaaacttaaacccagtgtctgaaagaaagaaataaacacatctgtgaaagtgtgtgc 2220  
Oy 2221 agcatccttaacaagagcaactcctctagcgcctctgtctgtcctcaatgtgtgcggaag 2280  
Dh 2221 agcatccttaacaagagcaactcctctagcgcctctgtctgtcctcaatgtgtgcggaag 2280

QY 2281 cccccaagcccgagctctccaaagcctccctccatccagctcacagcgtctgagctgacct 2340  
|||||  
Db 2281 cccccaagcccgagctctccaaagcctccctccatccagctcacagcgtctgagctgacct 2340  
QY 2341 gctcgcgtcccgctgaaatcgctcgtgagctcgtgaaactcctctgctccagact 2400  
|||||  
Db 2341 gctcgcgtcccgctgaaatcgctcgtgagctcgtgaaactcctctgctccagact 2400  
QY 2401 ccagaaagaaatgagaggggaaactaagctcaacagaaatctgagagggagaggtttc 2460  
|||||  
Db 2401 ccagaaagaaatgagaggggaaactaagctcaacagaaatctgagagggagaggtttc 2460  
QY 2461 ctcagagggaaaggggacctccacagctccacagagaaatccagagaggtgagagctgacggag 2520  
|||||  
Db 2461 ctcagagggaaaggggacctccacagctccacagagaaatccagagaggtgagagctgacggag 2520  
QY 2521 tgggagcgtggggtctgagcgggtgctgtaaaagcagagaaagtgaagagggcaaggtctaa 2580  
|||||  
Db 2521 tgggagcgtggggtctgagcgggtgctgtaaaagcagagaaagtgaagagggcaaggtctaa 2580  
QY 2581 gctccccagagctgagcgtgagcgggtgctgtaaaagcagagaaagtgaagagggcaaggtctaa 2640  
|||||  
Db 2581 gctccccagagctgagcgtgagcgggtgctgtaaaagcagagaaagtgaagagggcaaggtctaa 2640  
QY 2641 cttctaatctctctctgctctgagaggaagaaagtctattctaatgaagaga.tgcagatttc 2700  
|||||  
Db 2641 cttctaatctctctctgctctgagaggaagaaagtctattctaatgaagaga.tgcagatttc 2700  
QY 2701 ataaagctagctgtttaaaatcccaaggtgtgca.tgggtttctcctccagaaagaccttat 2760  
|||||  
Db 2701 ataaagctagctgtttaaaatcccaaggtgtgca.tgggtttctcctccagaaagaccttat 2760  
QY 2761 ttaa.tgggaaatagagagggcagagctcaatctccaaagccgttaaatccagagaaagtgaac 2820  
|||||  
Db 2761 ttaa.tgggaaatagagagggcagagctcaatctccaaagccgttaaatccagagaaagtgaac 2820  
QY 2821 tggagagctttctctctca.tgctctctgagcaactacacagccctg.tg.tgagct.tgacctaa 2880  
|||||  
Db 2821 tggagagctttctctctca.tgctctctgagcaactacacagccctg.tg.tgagct.tgacctaa 2880  
QY 2881 tgcagaaaggt.tcgaaaaaacccttgaaatcagagagctgggtttctctctggtctgacct 2940  
|||||  
Db 2881 tgcagaaaggt.tcgaaaaaacccttgaaatcagagagctgggtttctctctggtctgacct 2940  
QY 2941 ggttgggcctgctgagacgtgagcaggtgctctcctccctctgagccatgctctctgct 3000  
|||||  
Db 2941 ggttgggcctgctgagacgtgagcaggtgctctcctccctctgagccatgctctctgct 3000  
QY 3001 ataaagacccct.tgcagctctcgtg.tctctgtaaacacttccctg.tgattctctctg.tgaggg 3060  
|||||  
Db 3001 ataaagacccct.tgcagctctcgtg.tctctgtaaacacttccctg.tgattctctctg.tgaggg 3060  
QY 3061 gga.tgct.tgagaggggaaagagagcagagctgagcagctggaacccaaagggaggtgaggg 3120  
|||||  
Db 3061 gga.tgct.tgagaggggaaagagagcagagctgagcagctggaacccaaagggaggtgaggg 3120  
QY 3121 ggaagagagagggcagagaaagctggtgctcattcagctcctccacatgcatgacgtcagactc 3180  
|||||  
Db 3121 ggaagagagagggcagagaaagctggtgctcattcagctcctccacatgcatgacgtcagactc 3180  
QY 3181 caggaacccgagcacaat.tgctctcagaaagctcaat.tgaaccccaacagccacatttctc 3240  
|||||  
Db 3181 caggaacccgagcacaat.tgctctcagaaagctcaat.tgaaccccaacagccacatttctc 3240  
QY 3241 tcccttaagcacaagacaat.tgcat.tgccaataaaccaaaaaaba.tgcaagacttaactgt 3300  
|||||  
Db 3241 tcccttaagcacaagacaat.tgcat.tgccaataaaccaaaaaaba.tgcaagacttaactgt 3300  
QY 3301 ggtagcttttccctgagcattcaaaaaactgggccaagagcaagt.tgaaaaatgccaagatg 3360  
|||||  
Db 3301 ggtagcttttccctgagcattcaaaaaactgggccaagagcaagt.tgaaaaatgccaagatg 3360  
QY 3361 ttaaaactttcaacctgagccagcaccccaagcgtcagctgagctg.tgacagacag 3420  
|||||

Db 3361 ttaaaactttcaacctgagccagcaccccaagcgtcagctgagctg.tgacagacag 3420  
|||||  
QY 3421 ag.tgac.tgcaaggggagggagaaagaaagggg.tga.tg.tatgagcagaagaaag 3480  
|||||  
Db 3421 ag.tgac.tgcaaggggagggagaaagaaagggg.tga.tg.tatgagcagaagaaag 3480  
QY 3481 acaat.tcaatccaaagggcag.tg.tgaaat.tgacaagggat.tatg.tccac.tg.tccctg 3540  
|||||  
Db 3481 acaat.tcaatccaaagggcag.tg.tgaaat.tgacaagggat.tatg.tccac.tg.tccctg 3540  
QY 3541 gttctagagggcagggctata.tg.tg.tgggggaaaaaatcag.ttaagggag.tcgaggaga 3600  
|||||  
Db 3541 gttctagagggcagggctata.tg.tg.tgggggaaaaaatcag.ttaagggag.tcgaggaga 3600  
QY 3601 cctgattctatactata.tttctcccttaacaagctgag.taatct.tgagcaagctcacaaag 3660  
|||||  
Db 3601 cctgattctatactata.tttctcccttaacaagctgag.taatct.tgagcaagctcacaaag 3660  
QY 3661 gtag.taaactgagc.tg.taaaga.ttaact.tag.ttcctctaat.tagaagact.tcttctctgt 3720  
|||||  
Db 3661 gtag.taaactgagc.tg.taaaga.ttaact.tag.ttcctctaat.tagaagact.tcttctctgt 3720  
QY 3721 gga.tgtagcagcacaagggcaatcccg.tttct.ttaacaaggaagaaacat.tccaaag 3780  
|||||  
Db 3721 gga.tgtagcagcacaagggcaatcccg.tttct.ttaacaaggaagaaacat.tccaaag 3780  
QY 3781 taaagcccaacaga.ttaaaagctaggtctgctgac.tata.tg.tg.tttttttaaagaaat 3840  
|||||  
Db 3781 taaagcccaacaga.ttaaaagctaggtctgctgac.tata.tg.tg.tttttttaaagaaat 3840  
QY 3841 catt.tcaagcga.tg.ttaactata.tctgata.tccaga.aaat.tgagctag.taacct.tg.tgacgtg 3900  
|||||  
Db 3841 catt.tcaagcga.tg.ttaactata.tctgata.tccaga.aaat.tgagctag.taacct.tg.tgacgtg 3900  
QY 3901 taaacaaacacccg.tgtgtaaatgtcccaagt.ttcaggtcttaac.tgcggaacccaatccaat 3959  
|||||  
Db 3901 taaacaaacacccg.tgtgtaaatgtcccaagt.ttcaggtcttaac.tgcggaacccaatccaat 3959  
QY 3961 aaga.tgaaat.cct.ttaagcgaact.tg.tttctccaat.tccg.tggaggt.tgagctgccaag 4019  
|||||  
Db 3961 aaga.tgaaat.cct.ttaagcgaact.tg.tttctccaat.tccg.tggaggt.tgagctgccaag 4019  
QY 4020 cag.t.tggaat.ttaact.tccaagat.tgacac.tg.tg.tg.tg.tat.taaacaataaag 4079  
|||||  
Db 4020 cag.t.tggaat.ttaact.tccaagat.tgacac.tg.tg.tg.tg.tat.taaacaataaag 4079  
QY 4080 ttgctcaagggcaatcattat.tccaagtgtc.taaagttaact.tctgacagt.ttggtcata 4139  
|||||  
Db 4080 ttgctcaagggcaatcattat.tccaagtgtc.taaagttaact.tctgacagt.ttggtcata 4139  
QY 4140 ttttttggtat.tgcca.tttgcttttcttttctctctctggtggt.tta.tg.tg.taaagca 4199  
|||||  
Db 4140 ttttttggtat.tgcca.tttgcttttcttttctctctctggtggt.tta.tg.tg.taaagca 4199  
QY 4200 gga.tta.ttaacccaag.tccaagaagcctg.tgaatt.tgaa.tgagga.aaaaat.tacatt 4259  
|||||  
Db 4200 gga.tta.ttaacccaag.tccaagaagcctg.tgaatt.tgaa.tgagga.aaaaat.tacatt 4259  
QY 4260 ttg.ttttaacacccct.ttaactaaat.ttaacatt.tta.tccaat.tg.cgaat.tgaaacataa 4319  
|||||  
Db 4260 ttg.ttttaacacccct.ttaactaaat.ttaacatt.tta.tccaat.tg.cgaat.tgaaacataa 4319  
QY 4320 actcaag.tggt.taaacag.tgac.tg.tgatt.tg.tg.tta.ttaacaa.tagaat.cacagacat 4379  
|||||  
Db 4320 actcaag.tggt.taaacag.tgac.tg.tgatt.tg.tg.tta.ttaacaa.tagaat.cacagacat 4379  
QY 4380 tta.tactata.tta.cag.tg.tg.tgagab.tag.tg.tgaa.tg.tgaat.tata.tccaaact 4439  
|||||  
Db 4380 tta.tactata.tta.cag.tg.tg.tgagab.tag.tg.tgaa.tg.tgaat.tata.tccaaact 4439  
QY 4440 act.tgaaat.tgaacccctcctgctgagct.tg.tttttaa.cata.taaataaaca.tg.ttttaa 4499  
|||||

```
Db 4440 acctgaaatagaccctcgtggtctgttttaacataataaacaagttaa 4499
Oy 4500 aatttgaatatttgtaatacattcatattcatattgtttccttgytaattatct 4559
Db 4500 aatttgaatatttgtaatacattcatattcatattgtttccttgytaattatct 4559
Oy 4560 tatataattgaaacaactcttctgagaagaagttccccaagattccacaatgaagttctctg 4619
Db 4560 tatataattgaaacaactcttctgagaagaagttccccaagattccacaatgaagttctctg 4619
Oy 4620 gcatgcacacacacagaglaaagaactgatttaagggtctaaacattgacattgtgtcctgag 4679
Db 4620 gcatgcacacacacagaglaaagaactgatttaagggtctaaacattgacattgtgtcctgag 4679
Oy 4680 atgcagaactgaaattagaagaattcctcccaagatacacagttgttttaagctagggtc 4739
Db 4680 atgcagaactgaaattagaagaattcctcccaagatacacagttgttttaagctagggtc 4739
Oy 4740 gagggggggaaatctgcgcgtctctataaggaaatgctctcccgaggagcctgtagggtcctgt 4799
Db 4740 gagggggggaaatctgcgcgtctctataaggaaatgctctcccgaggagcctgtagggtcctgt 4799
Oy 4800 ccttgyttctcgtgctggtgttattttctctcgtctccctgtaagcttaagaagctgtgt 4859
Db 4800 ccttgyttctcgtgctggtgttattttctctcgtctccctgtaagcttaagaagctgtgt 4859
Oy 4860 tggatctcgaagttccctcagaatagtgctgagcagatgaggtctcaatgaatttcagaa 4919
Db 4860 tggatctcgaagttccctcagaatagtgctgagcagatgaggtctcaatgaatttcagaa 4919
Oy 4920 gtgaaatgggaataataaactagaataataatccttgttgaatacagacacagtaagtcctg 4979
Db 4920 gtgaaatgggaataataaactagaataataatccttgttgaatacagacacagtaagtcctg 4979
Oy 4980 gtgtaaagtgtgtgtacgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5039
Db 4980 gtgtaaagtgtgtgtacgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5039
Oy 5040 ataggaactatctctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5099
Db 5040 ataggaactatctctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5099
Oy 5100 ccaaaagaagctcttggaaggtttattcttaagaatctgtctggaaggttgaagcaaccc 5159
Db 5100 ccaaaagaagctcttggaaggtttattcttaagaatctgtctggaaggttgaagcaaccc 5159
Oy 5160 ccctgtgtcacaagcccaacacagcctcagctgtgacacactgtctctcccatgaaaggtc 5219
Db 5160 ccctgtgtcacaagcccaacacagcctcagctgtgacacactgtctctcccatgaaaggtc 5219
Oy 5220 ggcctcccgatataataaacctctctgtgagcctcgagcagtgagccgcaagg 5271
Db 5220 ggcctcccgatataataaacctctctgtgagcctcgagcagtgagccgcaagg 5271

RESULT 8
V51364
ID V51364 standard; DNA: 5304 BP.
XX
XX V51364:
XX
XX
XX 27-OCT-1998 (first entry)
XX
XX Human TIGR promoter mutant TIGRmt3 DNA.
XX
XX TIGR: trabecular meshwork induced glucocorticoid response protein; human;
XX
XX diagnosis: glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX
XX Homo sapiens.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
XX mutation 4997..5002
FT
```

```
FT
FT
FT
PN WO9832850-A1.
PD 30-JUL-1998.
XX
XX 09-JAN-1998; 98MO-US00468.
XX
XX 26-SEP-1997; 97US-0938669.
XX
XX 28-JAN-1997; 97US-0791154.
XX
XX (REGC ) UNIV CALIFORNIA.
PI Chen H, Chen P, Nguyen TD, Polansky JR:
XX
XX WPI: 1998-427946/36.
XX
XX Use of TIGR nucleic acid sequences - used for, e.g. developing
XX products for diagnosis, prognosis and treatment of glaucoma
XX
XX Disclosure: Fig 2; 105pp; English.
XX
XX This sequence is a trabecular meshwork induced glucocorticoid response
XX protein (TIGR) promoter mutant, TIGRmt3, which is used in a method for
XX diagnosing glaucoma in a patient. The method involves the detection of
XX polymorphisms whose presence is predictive of a mutation affecting TIGR
XX response in the patient and can be diagnostic of glaucoma or steroid
XX sensitivity. Base substitutions and base additions upstream of and within
XX TIGR exons can also be used to diagnose glaucoma.
XX
XX Sequence 5304 BP: 1482 A; 1152 C; 1237 G; 1433 T; 0 other:

Query Match 99.3%; Score 5232.4; DB 19; Length 5304;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5269; Conservative 0; Mismatches 1; Indels 6; Gaps 3:

Oy 1 attcttggtcagttatccctcgaaggtctatataatgaatggaatgataaccaatgtgaag 60
Db 1 attcttggtcagttatccctcgaaggtctatataatgaatggaatgataaccaatgtgaag 60
Oy 61 tccataaacatgatatgcccacatcggatgtatgtctcttgaggaatgataaagaatca 120
Db 61 tccataaacatgatatgcccacatcggatgtatgtctcttgaggaatgataaagaatca 120
Oy 121 ggaagaaggagatcatcagcttagcgaagtgtccaggctgtctgtcttatttagta 180
Db 121 ggaagaaggagatcatcagcttagcgaagtgtccaggctgtctgtcttatttagta 180
Oy 181 cagatgtgtctctctgacgaaggtatcttcaagaaacatcacatcaatagtgaatc 240
Db 181 cagatgtgtctctctgacgaaggtatcttcaagaaacatcacatcaatagtgaatc 240
Oy 241 catcaaacagagctagaagaacaggaatgagatggtgacattgcccagaagaaatgccag 300
Db 241 catcaaacagagctagaagaacaggaatgagatggtgacattgcccagaagaaatgccag 300
Oy 301 gagaagcaaatatgatgaaataaactttcccttgtttttaaattccagaaaaatg 360
Db 301 gagaagcaaatatgatgaaataaactttcccttgtttttaaattccagaaaaatg 360
Oy 361 atgagaccacaaatcaatgataaggaataacagctcagaataaagaatgtttccaaattg 420
Db 361 atgagaccacaaatcaatgataaggaataacagctcagaataaagaatgtttccaaattg 420
Oy 421 taatgaatattgttcccttggaagagacccatcagctgagcttgatggaaatggaa 480
Db 421 taatgaatattgttcccttggaagagacccatcagctgagcttgatggaaatggaa 480
Oy 481 aaacgtcaaaagcagatcgtatcagatcccaaaagtgtatatttttaaaacagat 540
Db 481 aaacgtcaaaagcagatcgtatcagatcccaaaagtgtatatttttaaaacagat 540
```

Oy	541	gacatcacctctgggagagcgaagtcacaggaagtcagatgtatgcgaagagcatataacataac	600
Db	541	ggcatctacctctggggagagcgaagtcacaggaagtcagatgtatgcgaagagcatataacataac	600
Oy	601	agcaaaatcacaatatccgcgaatctgcagaggaagaaatggggactctggaaagcttcatatc	660
Db	601	agcaaaatcacaatatccgcgaatctgcagaggaagaaatggggactctggaaagcttcatatc	660
Oy	661	agtgattagcagcttgacatctgtctcgaacaccccccgtctataccaggggaacaaa	720
Db	661	agtgattagcagcttgacatctgtctcgaacaccccccgtctataccaggggaacaaa	720
Oy	721	atgcacctgggcttaagccttggaattcttaagggaaatatgtaaaacctgaaagcaaaacaaa	780
Db	721	atgcacctgggcttaagccttggaattcttaagggaaatatgtaaaacctgaaagcaaaacaaa	780
Oy	781	gacatctgtttaaagggcaacccaagaacatctggagccctctaaagcagcagctgcccctcagca	840
Db	781	gacatctgtttaaagggcaacccaagaacatctgtgagccctctaaagcagcagctgcccctcagca	840
Oy	841	ggagcccttgagagcattctgcctcttaaggagagcgcaagtttcttaaggaaatcttaagaaatc	900
Db	841	ggagcccttgagagcattctgcctcttaaggagagcgcaagtttcttaaggaaatcttaagaaatc	900
Oy	901	ctggaagaatcatgtgaattcttaacattttaagatctaaacaaataagcagatgcataatag	960
Db	901	ctggaagaatcatgtgaattcttaacattttaagatctaaacaaataagcagatgcataatag	960
Oy	961	ctctgagacatctgggtcccaattcttaaaatcagaacataagaagataagctgtcccgctcc	1020
Db	961	ctctgagacatctgggtcccaattcttaaaatcagaacataagaagataagctgtcccgctcc	1020
Oy	1021	ggaataagctcagaaaatcatctagaaaatcacgtgtctcccatctcaactctttcagaatgtatc	1080
Db	1021	ggaataagctcagaaaatcatctagaaaatcacgtgtctcccatctcaactctttcagaatgtatc	1080
Oy	1081	tgctaatgcccctccacacacagcgcccgatgtgtctgacctcaaaacacatctcaaacccaa	1140
Db	1081	tgctaatgcccctccacacacagcgcccgatgtgtctgacctcaaaacacatctcaaacccaa	1140
Oy	1141	gtgcctcaacacatgtttaaagctgctatctcagaagatcccatctaaatgtgcacatccccc	1200
Db	1141	gtgcctcaacacatgtttaaagctgctatctcagaagatcccatctaaatgtgcacatccccc	1200
Oy	1201	tggtcagaccccatctccgcgtccacagagaagctcccccacttagaactcttgacatcaagatgt	1260
Db	1201	tggtcagaccccatctccgcgtccacagagaagctcccccacttagaactcttgacatcaagatgt	1260
Oy	1261	tacagccagaagaagctccgtctgggggtgggggtctcgtctaaacccataactgtatgctctac	1320
Db	1261	tacagccagaagaagctccgtctgggggtgggggtctcgtctaaacccataactgtatgctctac	1320
Oy	1321	accggaagctcaactgcgaacccctgcgctcccccaggtcttaagaatctccctgcctcaagccccc	1380
Db	1321	accggaagctcaactgcgaacccctgcgctcccccaggtcttaagaatctccctgcctcaagccccc	1380
Oy	1381	cgagctagctgggaactacagcgacagcccgccgataattttgttatgttatgtagagatgg	1440
Db	1381	cgagctagctgggaactacagcgacagcccgccgataattttgttatgttatgtagagatgg	1440
Oy	1441	gtttcaacacataatagcccggtctgtcttgaactctctgacactaggtatgatacccaactc	1500
Db	1441	gtttcaacacataatagcccggtctgtcttgaactctctgacactaggtatgatacccaactc	1500
Oy	1501	agccctctaaaggtctctgggaatttaacagagcagtgatacccgccggccagaaaggtcagatgt	1560
Db	1501	agccctctaaaggtctctgggaatttaacagagcagtgatacccgccggccagaaaggtcagatgt	1560
Oy	1561	ctaataaagaaataactctggaatgttctacttaaaccaacaggggaacagcaaaagctctgga	1620
Db	1561	ctaataaagaaataactctggaatgttctacttaaaccaacaggggaacagcaaaagctctgga	1620

QY	1621	taattcaagggaattcttcgggaatggggaatgggbcataagcctgcctctgtcccaagc	1680
Db	1621	taattcaagggaattcttcgggaatggggaatgggbcataagcctgcctctgtcccaagc	1680
QY	1681	caatgctccatacaactcttcctcccaaccctcaatttcagaatgaattacattttat	1740
Db	1681	caatgctccatacaactcttcctcccaaccctcaatttcagaatgaattacattttat	1740
QY	1741	caaccaatgtctttgtgttaagcctcccaatcgtbactgaaataagagatatacaaatag	1800
Db	1741	caaccaatgtctttgtgttaagcctcccaatcgtbactgaaataagagatatacaaatag	1800
QY	1801	ttccaatttgggggccaactctgtgtgtgtgtataaagggggggggcaataccccagagctct	1860
Db	1801	ttccaatttgggggccaactctgtgtgtgtgtataaagggggggggcaataccccagagctct	1860
QY	1861	tgaagccccccggcagagagttctccctcccaacctgggggaacccctgcgaacacccgggtcc	1920
Db	1861	tgaagccccccggcagagagttctccctcccaacctgggggaacccctgcgaacacccgggtcc	1920
QY	1921	tgggtgtctctgaagaaacctggcagcccgctgcacatggtgtgtttgttatacactcttag	1980
Db	1921	tgggtgtctctgaagaaacctggcagcccgctgcacatggtgtgtttgttatacactcttag	1980
QY	1981	gaactgtgtctcttctattctctgtgtatcctgtatcatatcatccagagcatatcatgaacat	2040
Db	1981	gaactgtgtctcttctattctctgtgtatcctgtatcatatcatccagagcatatcatgaacat	2040
QY	2041	tattgtgaactatactgtgcacagacccagagacaaataggtgtgaacaaagcagttcaatgc	2100
Db	2041	tattgtgaactatactgtgcacagacccagagacaaataggtgtgaacaaagcagttcaatgc	2100
QY	2101	ccataccttcgtggaagcgtgaacaagtcttcatagtgaagaacgtgtcagaagaataatbaavagca	2160
Db	2101	ccataccttcgtggaagcgtgaacaagtcttcatagtgaagaacgtgtcagaagaataatbaavagca	2160
QY	2161	gccaacttaaaacccagtgctgtgaaagaagaaataaacacactcttgaaagaattgtgtgc	2220
Db	2161	gccaacttaaaacccagtgctgtgaaagaagaaataaacacactcttgaaagaattgtgtgc	2220
QY	2221	agcattcccttaacaaggccacccctccctagaagccccctgtgtctccatcgtgtgccccgggg	2280
Db	2221	agcattcccttaacaaggccacccctccctagaagccccctgtgtctccatcgtgtgccccgggg	2280
QY	2281	cccccaagccccagtgcttccaaagcctccctccatcagttcaacagcgtctgacgtgtgcct	2340
Db	2281	cccccaagccccagtgcttccaaagcctccctccatcagttcaacagcgtctgacgtgtgcct	2340
QY	2341	gctctgcctccgttgaatcgtctcctgtgtgcatcttgagctgtagaacctctgtgctccagagct	2400
Db	2341	gctctgcctccgttgaatcgtctcctgtgtgcatcttgagctgtagaacctctgtgctccagagct	2400
QY	2401	ccagaagaaggaaatggagaagggaacactagcttcaacgggaagaaatctggaaagggaacagtgcttc	2460
Db	2401	ccagaagaaggaaatggagaagggaacactagcttcaacgggaagaaatctggaaagggaacagtgcttc	2460
QY	2461	ctcagaagggaaggggctcccaagctccagagagaaattccagagggctggaggagctgcagggag	2520
Db	2461	ctcagaagggaaggggctcccaagctccagagagaaattccagagggctggaggagctgcagggag	2520
QY	2521	tggggagcgtggggctgtaggggtgtcgtgaagaagcagaagaagtgtaaaagggcagaagcttga	2580
Db	2521	tggggagcgtggggctgtaggggtgtcgtgaagaagcagaagaagtgtaaaagggcagaagcttga	2580
QY	2581	gctgcaccagatggtcagtggtgtgttcaacgggggctcgggaggttcttcgtctccctgttagc	2640
Db	2581	gctgcaccagatggtcagtggtgtgttcaacgggggctcgggaggttcttcgtctccctgttagc	2640
QY	2641	gctcttaaccttcttcgctctggagaaggaagaagatctattcaatgaagaaggatgcagtttc	2700
Db	2641	gctcttaaccttcttcgctctggagaaggaagaagatctattcaatgaagaaggatgcagtttc	2700
QY	2701	ataaagtcagctgtgtaaaattccagaaggtgtgtacatgggtttctcctccagaagaagccattat	2760



|||||  
Db 2701 ataaagtcagctgttaaataatccagggtgctgactggtttccctccacggaagcccttat 2760  
QY 2761 cttaaagggaatataagaaagcgaagctcaattccctaaagccgttaattccaaggaaagaatgac 2820  
Db 2761 ttaataaggaaataaagaagcgaagctcaattccctaaagccgttaattccaaggaaagaagac 2820  
QY 2821 tgaagctcttctctctatagctctctgagcaactacagccgctgtgttgaaacttggttta 2880  
Db 2821 tgaagctcttctctctatagctctctgagcaactacagccgctgtgttgaaacttggttta 2880  
QY 2881 tgaagctcttctctctatagctctctgagcaactacagccgctgtgttgaaacttggttta 2940  
Db 2881 tgaagctcttctctctatagctctctgagcaactacagccgctgtgttgaaacttggttta 2940  
QY 2941 ggtctgctgtgctgacccgttgagcaagtgctctctccctcccgagccaaagtctctcgtc 3000  
Db 2941 ggtctgctgtgctgacccgttgagcaagtgctctctccctcccgagccaaagtctctcgtc 3000  
QY 3001 ataaagaaccttgacgctcctcgtctgtctgaaacactccctctgactctctgaggg 3060  
Db 3001 ataaagaaccttgacgctcctcgtctgtctgaaacactccctctgactctctgaggg 3060  
QY 3061 ggaatgtgaaaggaggaaggaagcagagctgaaagcagctgaaagcagggagggaggg 3120  
Db 3061 ggaatgtgaaaggaggaaggaagcagagctgaaagcagctgaaagcagggagggaggg 3120  
QY 3121 ggaacaggaagcagcagcagagctgggtgtctccatcagtcctcactcaatcagctcagaatc 3180  
Db 3121 ggaacaggaagcagcagcagagctgggtgtctccatcagtcctcactcaatcagctcagaatc 3180  
QY 3181 caagaccgaaagcacaatgctctcaggaagaagctcaatgaaccccaagccacactttccct 3240  
Db 3181 caagaccgaaagcacaatgctctcaggaagaagctcaatgaaccccaagccacactttccct 3240  
QY 3241 tccctaagcctaaagcaaatgctgcatcttgccaaataacaaagaagaaatgctgaagactaactgt 3300  
Db 3241 tccctaagcctaaagcaaatgctgcatcttgccaaataacaaagaagaaatgctgaagactaactgt 3300  
QY 3301 ggtagctcttctgctgcatctcaaaaactgagccagagcagaatgcaagaaatgccaagaattg 3360  
Db 3301 ggtagctcttctgctgcatctcaaaaactgagccagagcagaatgcaagaaatgccaagaattg 3360  
QY 3361 ttaaaccttctcaacccctgaacagcaaccccaagcagctcagagctgaacgctgacagccgg 3420  
Db 3361 ttaaaccttctcaacccctgaacagcaaccccaagcagctcagagctgaacgctgacagccgg 3420  
QY 3421 agtgacctgagcagcagggaggaagaaagaagaagaggaatagctgataagcaagaag 3480  
Db 3421 agtgacctgagcagcagggaggaagaaagaagaagaggaatagctgataagcaagaag 3480  
QY 3481 acagatctcaatcaaaagggcagctgggaattgacccacaggaatatagtccacgttgactctg 3540  
Db 3481 acagatctcaatcaaaagggcagctgggaattgacccacaggaatatagtccacgttgactctg 3540  
QY 3541 gttcttggaaagcagggctataatgttgagggggaaaaatacagttcaaggagagttcgggaga 3600  
Db 3541 gttcttggaaagcagggctataatgttgagggggaaaaatacagttcaaggagagttcgggaga 3600  
QY 3601 cctgacttccaataactatattctctctcaagctgaagctgaatctgaagcaagccaaag 3660  
Db 3601 cctgacttccaataactatattctctctcaagctgaagctgaatctgaagcaagccaaag 3660  
QY 3661 gtatgaactgagcctgttaagaatatactagtctctccttataggaactctttctctgt 3720  
Db 3661 gtatgaactgagcctgttaagaatatactagtctctccttataggaactctttctctgt 3720  
QY 3721 ggaagttagcagcacaagggcaatcccgcttctcttaacaggaagaacattcctaagag 3780  
Db 3721 ggaagttagcagcacaagggcaatcccgcttctcttaacaggaagaacattcctaagag 3780  
QY 3781 taaagccaaacagattcaagcctaggtctgtgactaatgattgtgtttttgaaat 3840  
Db 3781 taaagccaaacagattcaagcctaggtctgtgactaatgattgtgtttttgaaat 3840

Db 3781 taaagccaaacagattcaagcctaggtctgtgactaatgattgtgtttttgaaat 3840  
QY 3841 catcttagagatgtttactatctgattccagaaatagaagctgtaccccttgtagcg 3900  
Db 3841 catcttagagatgtttactatctgattccagaaatagaagctgtaccccttgtagcg 3900  
QY 3901 taaacaaaccccaagtgtgaaatgtctcaagttcaagcttaaacctgacagaacatcaaa- 3959  
Db 3901 taaacaaaccccaagtgtgaaatgtctcaagttcaagcttaaacctgacagaacatcaaa- 3960  
QY 3960 aagaatagaatctttagaagaactgttctcccaatccctgaaagttagctctgacagg 4019  
Db 3961 aagaatagaatctttagaagaactgttctcccaatccctgaaagttagctctgacagg 4019  
QY 4020 cagttggaaatatctactacagaagttagaacggtgtgtgtatataacacaaag 4079  
Db 4020 cagttggaaatatctactacagaagttagaacggtgtgtgtatataacacaaag 4079  
QY 4080 ttgctcaagcgaatcatatattcaagtgtgcttaagttactcttgacagtttggcata 4139  
Db 4080 ttgctcaagcgaatcatatattcaagtgtgcttaagttactcttgacagtttggcata 4139  
QY 4140 tttaattgcbatctgcaattgtcttctctctctctgaggttcaatgaatgaagca 4199  
Db 4140 tttaattgcbatctgcaattgtcttctctctctctgaggttcaatgaatgaagca 4199  
QY 4200 ggaattataacttaagttccaaagccgtgtgaatttgaaatgaggaataatataactt 4259  
Db 4200 ggaattataacttaagttccaaagccgtgtgaatttgaaatgaggaataatataactt 4259  
QY 4260 ttgttttcaacacctctaaactaaacttaacatcttatccatcttgagaaatagaccata 4319  
Db 4260 ttgttttcaacacctctaaactaaacttaacatcttatccatcttgagaaatagaccata 4319  
QY 4320 actcaaaagtgttaatacagttacgttgatcttgcatcaacaaatagaatcaacagat 4379  
Db 4320 actcaaaagtgttaatacagttacgttgatcttgcatcaacaaatagaatcaacagat 4379  
QY 4380 ttatactatataactagttgttgacagatagttgtgaaggaatatattatccaaact 4439  
Db 4380 ttatactatataactagttgttgacagatagttgtgaaggaatatattatccaaact 4439  
QY 4440 actctgaatataagctcccgctgagctgtctgttttcaacataatcaataaacaactgttaa 4499  
Db 4440 actctgaatataagctcccgctgagctgtctgttttcaacataatcaataaacaactgttaa 4499  
QY 4500 aatttgataatttgataatcatattcatattcatattgttctccttgtaactataact 4559  
Db 4500 aatttgataatttgataatcatattcatattcatattgttctccttgtaactataact 4559  
QY 4560 tatatatattgaaataactctctcgaaagaagttcccaagattccacaaatgaagttcttg 4619  
Db 4560 tatatatattgaaataactctctcgaaagaagttcccaagattccacaaatgaagttcttg 4619  
QY 4620 gcatgcaacacacagatgaagaactgatttgaaggttaacatctgacatgtgaggtgag 4679  
Db 4620 gcatgcaacacacagatgaagaactgatttgaaggttaacatctgacatgtgaggtgag 4679  
QY 4680 atgcaagacttgaataatagaagaattctcccaagaatatacagaattgttttaagctlaaggt 4739  
Db 4680 atgcaagacttgaataatagaagaattctcccaagaatatacagaattgttttaagctlaaggt 4739  
QY 4740 gaagggggaataatctgcgctctctataaggaatgctctcccgaggtctgtgaaggtgctgt 4799  
Db 4740 gaagggggaataatctgcgctctctataaggaatgctctcccgaggtctgtgaaggtgctgt 4799  
QY 4800 ccttgcttctgctgctgttattcttctctgtccctgtctgaaggtcttaaggaactgtt 4859  
Db 4800 ccttgcttctgctgctgttattcttctctgtccctgtctgaaggtcttaaggaactgtt 4859  
QY 4860 tgaatctccagttccttagcaatgtgctcgacaggtgcaggtctccaatgaattgtcgaga 4919  
Db 4860 tgaatctccagttccttagcaatgtgctcgacaggtgcaggtctccaatgaattgtcgaga 4919

[illegible]

RESULT 9  
 ID 237968 standard: DNA: 2800 BP.  
 XX 237968:  
 AC  
 XX  
 DT 07-FEB-2000 (first entry)  
 XX  
 DE Human GLCIA gene exon 1 and flanking sequences.  
 XX  
 DE GLCIA: PCR amplification: primary open wide angle glaucoma;  
 KW GLCIA gene; exon; human; ss.  
 XX  
 OS Homo sapiens.  
 PN W09951779-A2.  
 XX  
 PD 14-OCT-1999.  
 XX  
 PF 07-APR-1999: 99WO-US07671.  
 XX  
 PR 07-APR-1998: 98US-0056285.  
 XX  
 PA (IOWA ) UNIV IOWA RES FOUND.  
 XX  
 PI Stone EM, Sheffield VC, Alward WLM, Fingert J;  
 XX  
 DR WPI: 2000-022956/02.  
 XX  
 PT Determination of a predisposition to glaucoma by analysing mutations in  
 XX the GLCIA gene -  
 PT  
 PS Disclosure: Fig 1A; 137pp; English.  
 XX  
 CC The invention relates to a method for the determination of a  
 CC predisposition to glaucoma. The method comprises amplifying a GLCIA gen  
 CC with a primer pair selected from the sequences shown in 237981-238008.  
 CC The primers are used to determine whether a subject has or has the  
 CC potential to develop primary open wide angle glaucoma. The present  
 CC sequence represents the human GLCIA gene exon 1 and flanking sequences.  
 XX  
 Sequence 2800 BP: 781 A; 588 C; 673 G; 758 T; 0 other:

Query Match	34.2%	Score 1804.4;	DB 21;	Length 2800;
Best Local Similarity	99.8%	Pred. No. 0;		
Matches 1838: Conservative	0;	Mismatches	1;	Indels 3; Gaps 3;

Oy	3431	agcgagaggagggaggaagaaagagagagggatagtgctatgagcaagaaagaaagatctac	3490
Db	1	agcgagaggagggaggaag -aaagagggggaatagtgctatgagcaagaaagaaagatctac	59
Oy	3491	tcaagggagaggggaatctgacccagagatctatagctcagctgacgtctgtctcaggag	3550
Db	60	tcaagggaggggaatctgacccagagatctatagctcagctgacgtctgtctcaggag	119
Oy	3551	gcagggtctatctgtctgggggaaaaaaatcagttcagggaagtctgggagacctgattctc	3610
Db	120	gcagggtctatctgtctgggggaaaaaaatcagttcagggaagtctgggagacctgattctc	179
Oy	3611	aatactatattttcccttcacagctgagaaatctcggacggatccaaaggtagtaactg	3670
Db	180	aatactatattttcccttcacagctgagaaatctcggacggatccaaaggtagtaactg	239
Oy	3671	aggcgttaagaattactagttctcccttaataagaaatctttctctgtctgggttaagca	3730
Db	240	aggcgttaagaattactagttctcccttaataagaaatctttctctgtctgggttaagca	299
Oy	3731	gcacaaagggaatcccgcttctctttaacggagaaacaaatccctcaagggttaagccaa	3790
Db	300	gcacaaagggaatcccgcttctctttaacggagaaacaaatccctcaagggttaagccaa	359
Oy	3791	cagattcaagcttaggcgtctgtctgacacatagtatgtgttttttggaaaaatctatccag	3850
Db	360	cagattcaagcttaggcgtctgtctgacacatagtatgtgttttttggaaaaatctatccag	419
Oy	3851	abgtttactatctgatactcagaanaatgagacagtaaccccttggccagctgttaacaaaca	3910
Db	420	abgtttactatctgatactcagaanaatgagacagtaaccccttggccagctgttaacaaaca	479
Oy	3911	cccgattgtaaatgtctcgaagttcgaaggttaactgtcagagaacaaatccaa -aagaataga	3969
Db	480	cccgattgtaaatgtctcgaaggttaactgtcagagaacaaatccaaatagaataga	539
Oy	3970	tctttaaggccaactgtggtctctccacatctggaggtgagctctgcgaaggccagtttgga	4029
Db	540	tctttaaggccaactgtggtctctccacatctggaggtgagctctgcgaaggccagtttgga	598
Oy	4030	abatttacttacaagaatctgacacgtgtgtgtgtatcaacacataaagtgtcctaag	4089
Db	599	abatttacttacaagaatctgacacgtgtgtgtgtatcaacacataaagtgtcctaag	658
Oy	4090	gcaatcattattccaagtgtgcttaagaattcctctctgacagtttggtaattatttgct	4149
Db	659	gcaatcattattccaagtgtgcttaagaattcctctctgacagtttggtaattatttgct	718
Oy	4150	attgacatttgcttctgtttctctccttgggtcttatcaatgtaagaagagatcatca	4209
Db	719	attgacatttgcttctgtttctctccttgggtcttatcaatgtaagaagagatcatca	778
Oy	4210	acctacagttccaagaagcctgtgatttgaaatgaaagaaaaatcaatcttgttttac	4269
Db	779	acctacagttccaagaagcctgtgatttgaaatgaaagaaaaatcaatcttgttttac	838
Oy	4270	caaccttcaactaaatctaactttatctccattggaatagaagccataactcaaatg	4329
Db	839	caaccttcaactaaatctaactttatctccattggaatagaagccataactcaaatg	898
Oy	4330	gtaataacagtaactgtgattttgtcaatcacatagaatcacagacattttaacat	4389
Db	899	gtaataacagtaactgtgattttgtcaatcacatagaatcacagacattttaacat	958
Oy	4390	attacagtttgttgacagatagctgtgaaatgtaatatcttaactcaaaactacttgtaat	4449
Db	959	attacagtttgttgacagatagctgtgaaatgtaatatcttaactcaaaactacttgtaat	1018
Oy	4450	tagaactctctgtagactctgtgttttaactatataataaaatggtttaaattttgta	4509
Db	1019	tagaactctctgtagactctgtgttttaactatataataaaatggtttaaattttgta	1078

```
Oy 4510 ttctgataatcattcatatcatatcttctcttctgtaactatattatatttg 4569
    |||
Db 1079 ttctgataatcattcatatcttcttcttcttcttctgtaactatattatatttg 1138
Oy 4570 aaacacattcttcgagaagagttccccaagattccacaaatgagttcttgcagtcacac 4629
    |||
Db 1139 aaacacattcttcgagaagagttccccaagattccacaaatgagttcttgcagtcacac 1198
Oy 4630 acacagatgaagaactgattttagagcttaacttgcatttgcttgcttgatgagcaagact 4689
    |||
Db 1139 acacagatgaagaactgattttagagcttaacttgcatttgcttgcttgatgagcaagact 1258
Oy 4630 gaattatgaagaattctcccaagaatcacagagttgttttaaaactgaagggtgagggggaa 4749
    |||
Db 1259 gaattatgaagaattctcccaagaatcacagagttgttttaaaactgaagggtgagggggaa 1318
Oy 4750 atctgcgcgtctctatagaagaatgctcctcctgagcctgtagagtgctgtcttctgtctc 4809
    |||
Db 1319 atctgcgcgtctctatagaagaatgctcctcctgagcctgtagagtgctgtcttctgtctc 1378
Oy 4810 tggctgcgcgtctctatcttctctctcctcctcctcctcctcctcctcctcctcctcctc 4869
    |||
Db 1379 tggctgcgcgtctctatcttctctcctcctcctcctcctcctcctcctcctcctcctcctc 1438
Oy 4870 gtctcctagatagtgctcctgagcagtgctcctcctcctcctcctcctcctcctcctcctc 4929
    |||
Db 1439 gtctcctagatagtgctcctgagcagtgctcctcctcctcctcctcctcctcctcctcctc 1498
Oy 4930 atataaactagaataataatccttctgtgaatacagcacacagcagtagcctcgtgtgaagtg 4989
    |||
Db 1439 atataaactagaataataatccttctgtgaatacagcacacagcagtagcctcgtgtgaagtg 1558
Oy 4990 ggtctcgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgt 5049
    |||
Db 1559 ggtctcgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgt 1618
Oy 5050 ttattggggtctgagtgctgaataatgagtgcttcttcttcaaaagaagaactcccaaacagac 5109
    |||
Db 1619 ttattggggtctgagtgctgaataatgagtgcttcttcttcaaaagaagaactcccaaacagac 1678
Oy 5110 tctctggaaggttatttcttcaagaatctctgctgagcgtgaaagcacaacccctgtgcac 5169
    |||
Db 1679 tctctggaaggttatttcttcaagaatctctgctgagcgtgaaagcacaacccctgtgcac 1738
Oy 5170 agcccaaccagcctcagctgagcaccctctgtcttccccaagaaggtctgtctcccaag 5229
    |||
Db 1739 agcccaaccagcctcagctgagcaccctctgtcttccccaagaaggtctgtctcccaag 1798
Oy 5230 tatataataaactctcctgagcctcgggcatgagccagcaag 5271
    |||
Db 1799 tatataataaactctcctgagcctcgggcatgagccagcaag 1840

RESULT 10
ID 063862 standard; cDNA: 283 BP.
XX
AC 063862;
XX
DT 29-JAN-1995 (first entry)
XX
DE AP2 sequence obt'd. by PCR for tumour specific DNA.
XX
KW Arbitrary primers: AP-PCR; amplification: tumour cells; cancer;
XX insertions; deletions; ss.
XX
OS Synthetic.
XX
PN WO9411531-A.
XX
PD 26-MAY-1994.
XX
PF 12-NOV-1993; 93WO-US10904.
```

```
XX
PR 13-NOV-1992; 92US-0975737.
XX
PA (CALB-) CALIFORNIA INST BIOLOGICAL RES.
XX
PI Ionov Y, Malkhosyan S, McClelland M, Pelinado MA:
XX Perucho M, Welsh J;
XX
DR WPI: 1994-183529/22.
XX
PT Identification of tumour cells - by analysing DNA to determine
XX whether insertions or deletions have occurred in reiterated
XX sequences
XX
PS Disclosure: Page 52; 67pp; English.
XX
CC The sequence was obt'd. by PCR with arbitrary PCR primers used to
XX detect insertions or deletions in DNA sequences. Such mutations are
XX markers of cancer so such primers can be used in the diagnosis of
XX cancer. esp. colorectal, stomach or pancreatic tumours.
XX See also Q63837-63.
XX
SQ Sequence 283 BP; 63 A; 77 C; 94 G; 49 T; 0 other;

Query Match 3.3%; Score 176.4; DB 15; Length 283;
Best Local Similarity 80.4%; Pred. No. 2e-31;
Matches 222; Conservative 0; Mismatches 46; Indels 8; Gaps 1;

Oy 1281 ggttgaaggtctgtctgtctatcaccctacccgtatgctctacacctgagctcagctcaacct 1340
    |||
Db 276 GAGTCTCGCTCTGTGCGCCAGCGTAGAGAGTGCGCGATCTGCGCTCACTGCACACT 217
Oy 1341 ctgcctcccaagttcaagaattcctcgtctcagcctcccgcgtaagctggaccacagg 1400
    |||
Db 216 CCACCTCCCGGGTTCAAGGATTCCTGCTCACCTCCCGAGATGCTGGGATTAACAG 157
Oy 1401 cg-----cagcgccgctaatcttctgtatgtctgtatgagatggggttcaccat 1452
    |||
Db 156 CGCGGCCACACGCCCGGCTAATTTTGTATTAGTAGAGAGGGGTTTCACCATGT 97
Oy 1453 tagcccggtgtctgtctgaactcctgacctcaggtgagtcacaccactcagctcctaaag 1512
    |||
Db 96 TGGCCAGGCTGTGTTGAACCTCTGACCTCAGGTATCCACCCACTCGGCTCCCAAG 37
Oy 1513 tgcgtggtatcagagcagagtcacgcgcgcgcgc 1548
    |||
Db 36 TGTGTGGATTACAGGTGTGAGCCACACGCCACGCC 1

RESULT 11
ID 286967/c 286967 standard; DNA: 162450 BP.
XX
AC 286967;
XX
DT 16-MAY-2000 (first entry)
XX
DE Retinoblastoma binding protein-7 genomic DNA sequence.
XX
KW RBP-7; retinoblastoma binding protein-7; abnormal cell proliferation;
XX diagnosis; therapy; cell differentiation; thyroid hyperplasia; psoriasis;
XX benign prostate hypertrophy; cancer; sarcoma; neoplasm; leukaemia;
XX lymphoma; ds.
XX
OS Homo sapiens.
XX
PN WO20000607-A1.
XX
PD 06-JAN-2000.
XX
PF 30-JUN-1999; 99WO-IB01242.
XX
```



RESULT 13  
ID Q44278 standard: DNA: 17327 BP.  
AC Q44278:  
XX  
XX 24-NOV-1993 (first entry)  
DE Serglycin - proteoglycan peptide core.  
XX  
XX Haematopoietic cell secretory granule proteoglycan;  
KM positive; negative: transcriptional regulatory element;  
KM enhancer; eukaryotic promoter; constitutive suppressor;  
KM TATA-box: 58.  
XX  
XX Homo sapiens.  
OS  
FH Key Location/Qualifiers  
FT 373..621  
FT /tag= "5", regulatory region:  
FT /note= "Claim 1-3, page 78"  
FT misc\_signal  
FT 373..433  
FT /tag= "b"  
FT /note= "negative transcriptional regulatory element:  
FT claim 6 and 9-10, page 78-79"  
FT enhancer  
FT 514..541  
FT /tag= "c"  
FT /note= "enhancer transcriptional regulatory element;  
FT claim 11 and 14-15, page 79"  
FT promoter  
FT 582..602  
FT /tag= "d"  
FT /note= "eukaryotic promoter element;  
FT claim 16 and 19-20, page 80"  
FT CDS  
FT 675..16646  
FT /tag= "e"  
FT /label= serglycin  
FT 622..753  
FT /tag= "f"  
FT /number= 1  
FT 9597..9744  
FT /tag= "g"  
FT /number= 2  
FT 16397..17327  
FT /tag= "h"  
FT /number= 1  
FT 675..9598  
FT /tag= "i"  
FT /note= "interrupted by exon 1"  
FT 16449..16502  
FT misc\_RNA  
FT /tag= "j"  
FT /note= "serine-glycine rich glycosaminoglycan  
FT attachment region"  
FT polyA\_signal  
FT 17062..17067  
FT /tag= "k"  
FT /tag= "1"  
FT /note= "base represented as N in the specification"  
FT  
XX  
XX PN WO9313119-A.  
XX  
XX PD 08-JUL-1993.  
XX  
XX PE 23-DEC-1992: 92WO-US11194.  
XX  
XX PR 03-JAN-1992: 92US-0816289.  
XX 02-JUL-1992: 92US-0906871.  
XX  
XX (BGHM ) BRIGHAM & WOMENS HOSPITAL.  
XX  
XX PA AVraham S, Stevens RL.  
XX

DR WPI: 1993-227261/28.  
DR P-PSDB: R39393.  
PT Transcription regulatory elements of serglycin gene - specific  
PT for haematopoietic cells, also trans-acting transcriptional  
PT binding factors  
XX  
XX PS Disclosure: Fig 4B-J: 112pp: English.  
XX  
XX A negative transcription regulatory element (a constitutive  
CC suppressor) between residues -250 and -190 (see tag b) of the 5'  
CC flanking region of the human serglycin gene, a positive  
CC (haematopoietic cell enhancer) regulatory element located between  
CC residues -118 and -81 (see tag c), an equiv. of the TATA-box and  
CC a novel eukaryotic promoter that utilises such equiv. (see tag d)  
CC are identified. The regulatory elements, vectors and hosts  
CC provided with these elements, are useful in the control of gene  
CC transcription of heterologous genes in eukaryotic cells, esp.  
CC hematopoietic cells.  
XX  
XX SO Sequence 17327 BP: 4936 A: 3604 C: 3741 G: 5045 T: 1 other:  
  
Query Match 3.3%; Score 173.6; DB 14; Length 17327;  
Best Local Similarity 77.2%; Pred. No. 56-30;  
Matches 227; Conservative 0; Mismatches 59; Indels 8; Gaps 1:  
  
QY 1321 acctgagctcactgcgaacctctcctcccaaggttcaagcaatctctctcagctcc 1380  
DB 7766 ATTCGGCTCAGTGCACCACTCTCCAGGTTCAAGGATTCCTCGCTAGCCTCC 7707  
QY 1381 cgcgtagctggaactacaagcgacgc-----ccggctaatcttgatgttagta 1432  
DB 7706 CGAGTAGCTCGATGACAGAGTGCCACATCATATCCAGCTATTTTGTATTAGTA 7647  
QY 1433 gagaatggggttccacatattagcccgctgcttgaactcctgaacctcaagtgatcca 1492  
DB 7646 GGGATGGGGTTTCACCATGTTGCGCAGGCTGCTGCACTCCTGACCTCAGGTGATCCA 7587  
QY 1493 cccacctcagccctccaaagtctggtgattacagggatgattacggcgccgccaagg 1552  
DB 7586 CCCGCTCAGCTCCCAAAATGCTGGGATTACAGGTGTGAGCCACACACCGCGGAAA 7527  
QY 1553 gtacgtgttcaataaggaacttgaatggttactaaaccaagggaanaa 1606  
DB 7526 GACTTTTATGGAANAAGACATGTGCATTGTAGAAAAAATCTTACTTAAAAA 7473  
  
RESULT 14  
ID 223900 standard: DNA: 49999 BP.  
AC 223900:  
XX  
XX DT 25-JAN-2000 (first entry)  
XX  
XX DE Human LOBO homologue genomic DNA fragment 2.  
XX  
XX LOBO: long bones; bone development; bone extension; skull; osteopathic;  
XX diagnostic; pharmaceutical; gene therapy; transgenic animal; disease;  
XX spondyloepiphyseal dysplasia; achondroplasia; human; ds.  
XX  
XX OS Homo sapiens.  
XX  
XX PN WO950284-A2.  
XX  
XX PD 07-OCT-1999.  
XX  
XX PF 26-MAR-1999: 99WO-EP02055.  
XX  
XX PR 27-MAR-1998: 98DE-1013799.  
XX  
XX (ROSE/) ROSENTHAL A.  
XX







